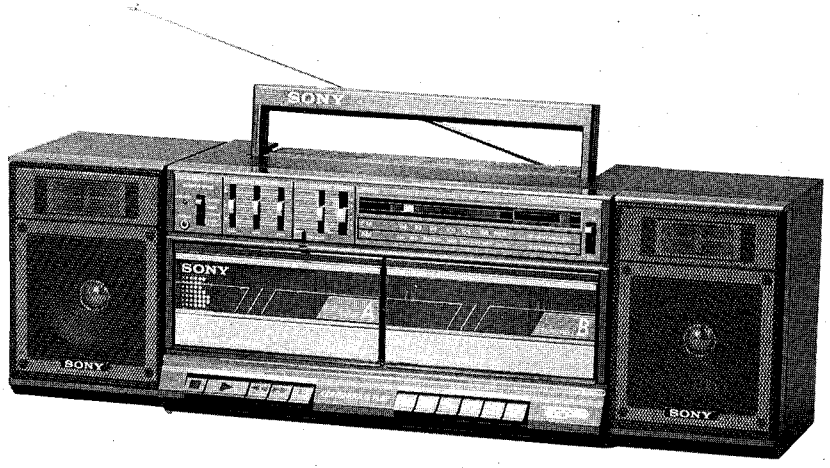
CFS-W440L

SERVICE MANUAL

AEP Model
UK Model



SPECIFICATIONS

Tape Transport Mechanism Type	MF-W400PB-75 (DECK A) MF-W400RP-75 (DECK B)

Radio section

Frequency range
- FM 87.6–107 MHz
- MW 530–1,605 kHz (566–187 m)
- LW 150–255 kHz (2,000–1,176 m)
- SW 6–18 MHz (50.4–16.7 m)

Antennas
- FM/SW: Telescopic antenna
- MW/LW: Built-in ferrite bar antenna

Tape recorder section and general

Recording system: 4-track 2-channel stereo

Fast winding time: Approx. 1 min. 30 sec. with Sony C-60 cassette

Frequency response: 100–8,000 Hz

Speakers: Two way:
- Approx. 10 cm (4 inches) dia. woofer x 2
- Apporx. 2 cm (13/16 inches) dia. tweeter x 2

Power output: 4 W + 4 W (at 10 % harmonic distortion) at dc operation

Inputs: Two external microphone input jacks (minijack)
- sensitivity 1.38 mV (–55 dB)
- for low impedance microphone

Outputs: Headphones jack (stereo minijack)
- for 8–300-ohm impedance headphones

Power requirements
- 220 V ac, 50 Hz (European model)
- 240 V ac, 50 Hz (UK model)
- 9 V dc, six batteries IEC designation R20 (size D)

Power consumption 25 W at ac operation

Battery life

Batteries	Tape playback	FM recording	Dubbing
Sony New Super SUM-1 (NS)	15	13	9
Sony Eveready AM1 alkaline	26	23	16

(hours)

Dimensions: Approx. 570 x 178 x 188 mm (w/h/d) (22 ½ x 7 x 7 ½ inches) incl. projecting parts and controls, not incl. handle

Weight: Approx. 5.2 kg (11 lb 8 oz) incl. batteries

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

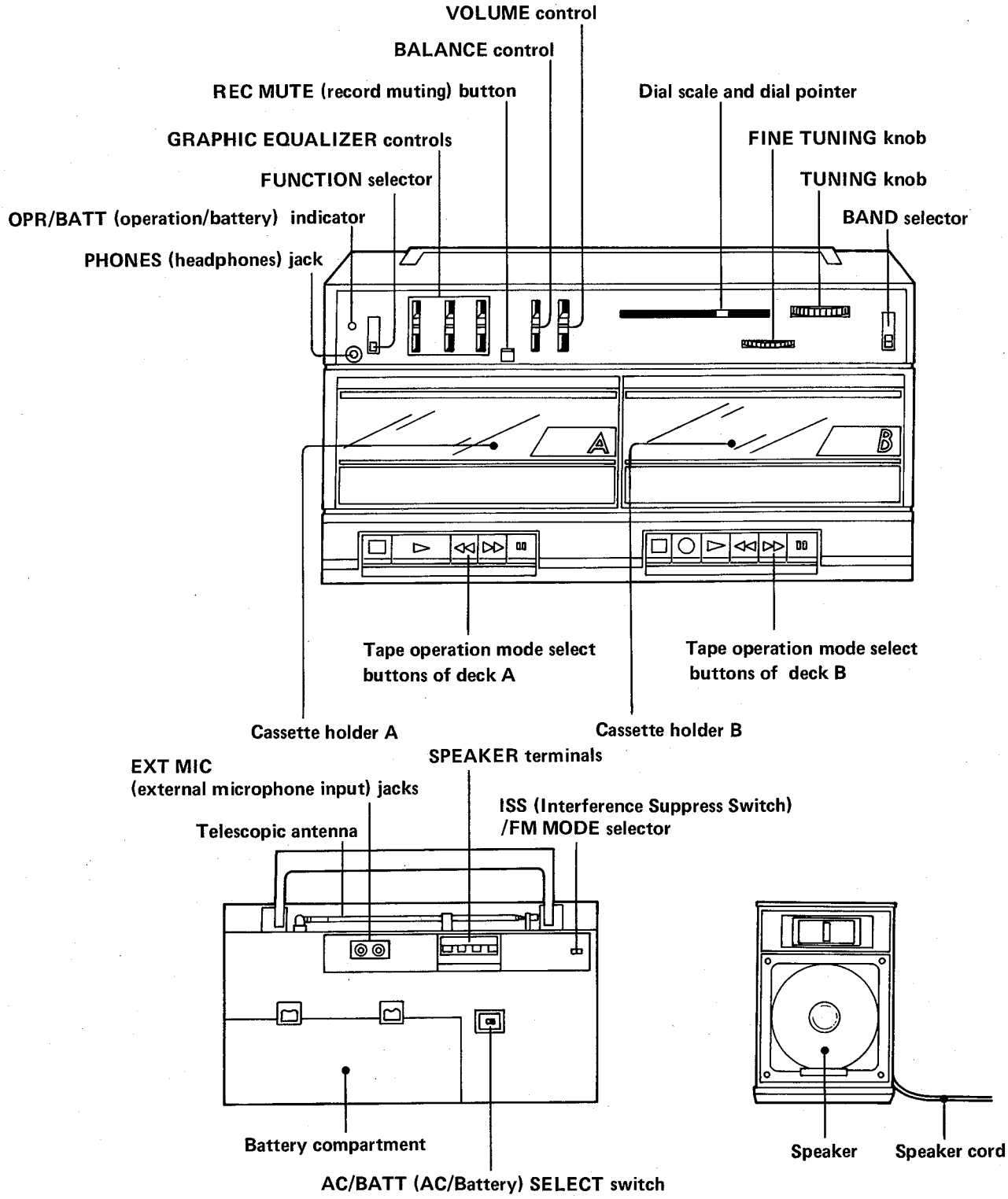
FM/MW/LW/SW STEREO CASSETTE-CORDER

SONY®

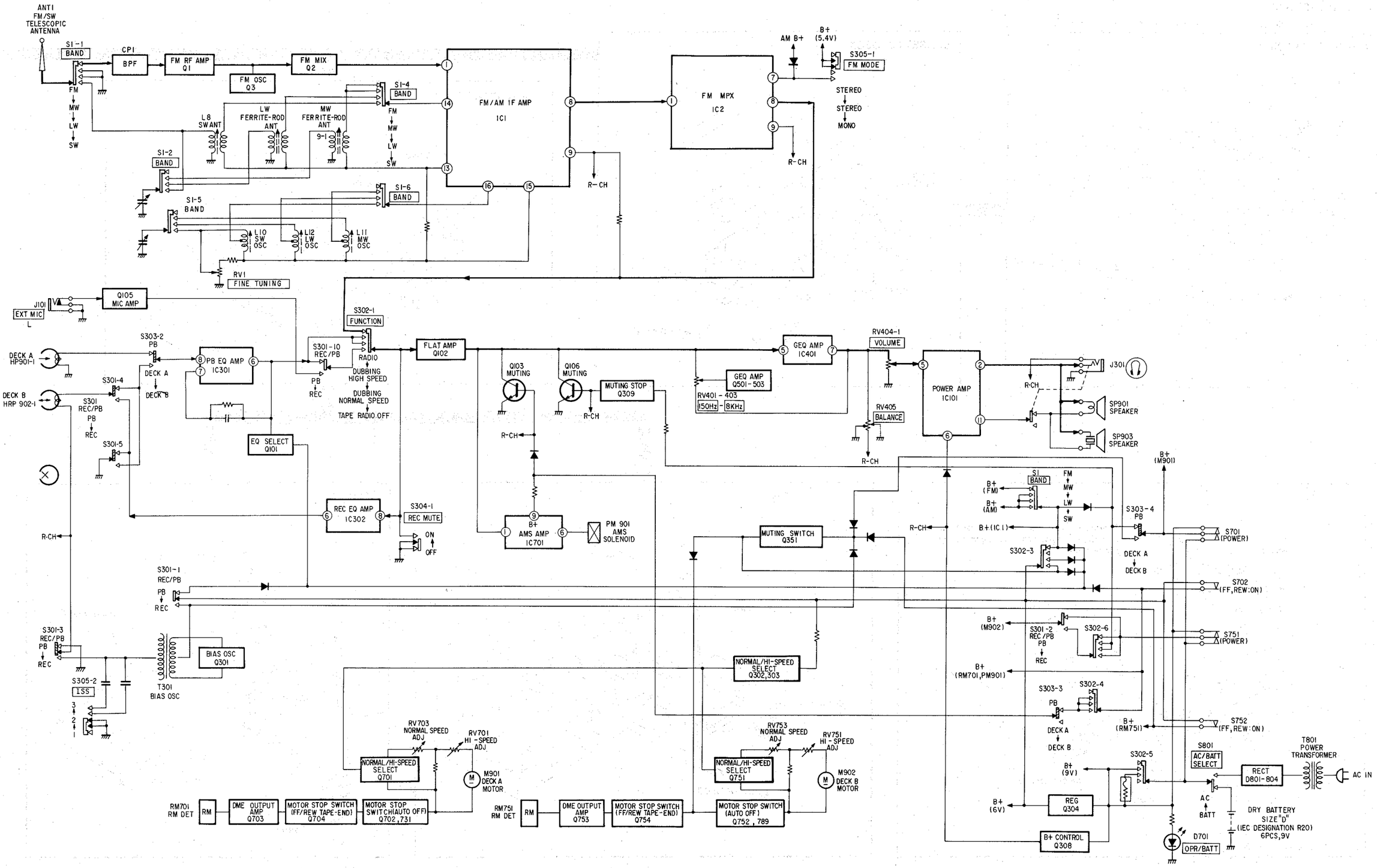
MICROFILM

TC

LOCATION OF CONTROLS



SECTION 1
BLOCK DIAGRAM

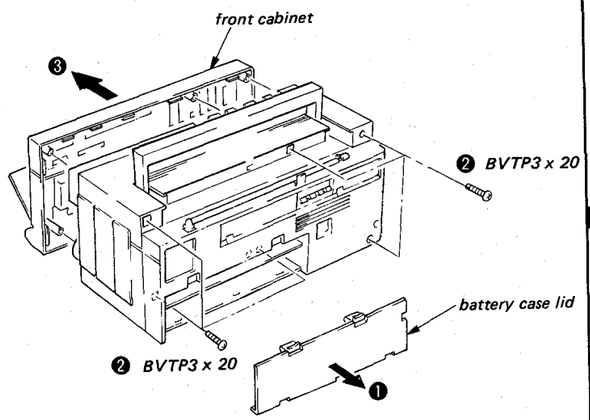


SECTION 2
DISASSEMBLY

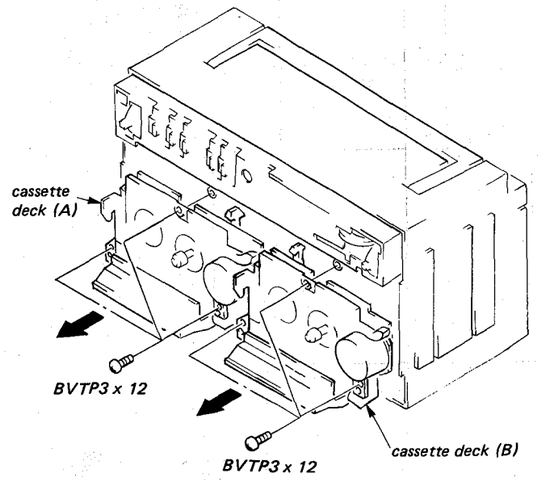
2-1. REMOVAL

Note: Follow the disassembly procedure in the numerical order given.

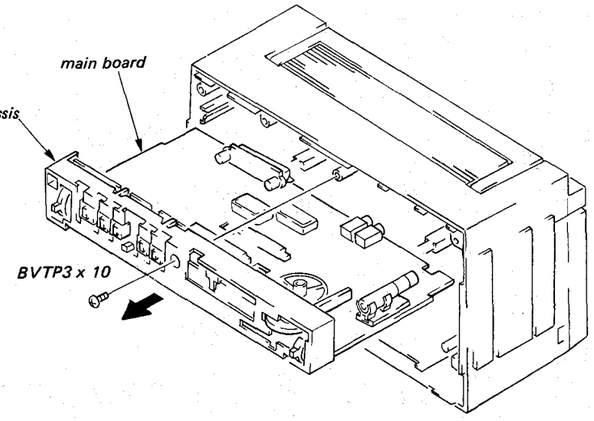
FRONT CABINET



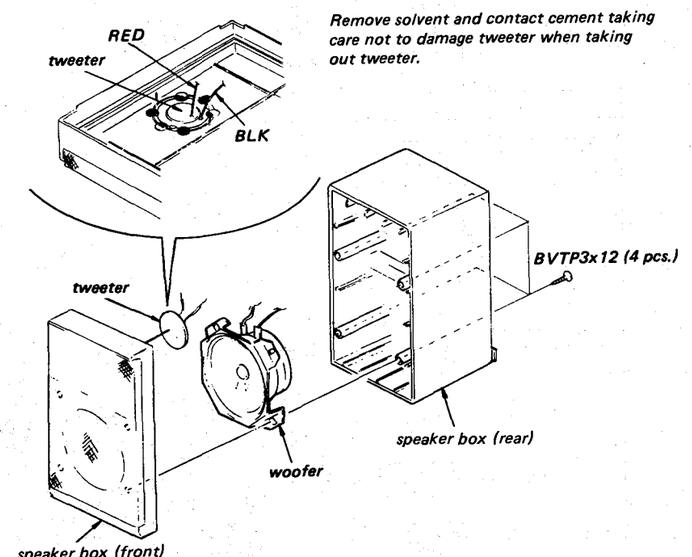
CASSETTE DECK



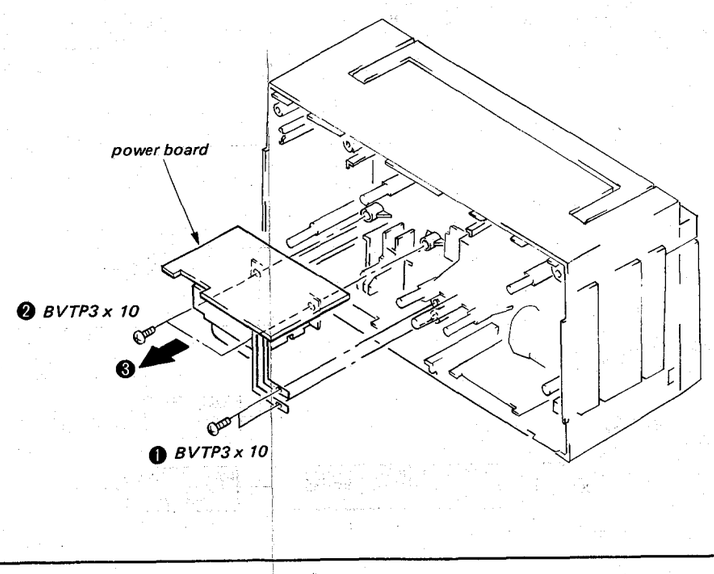
MAIN BOARD



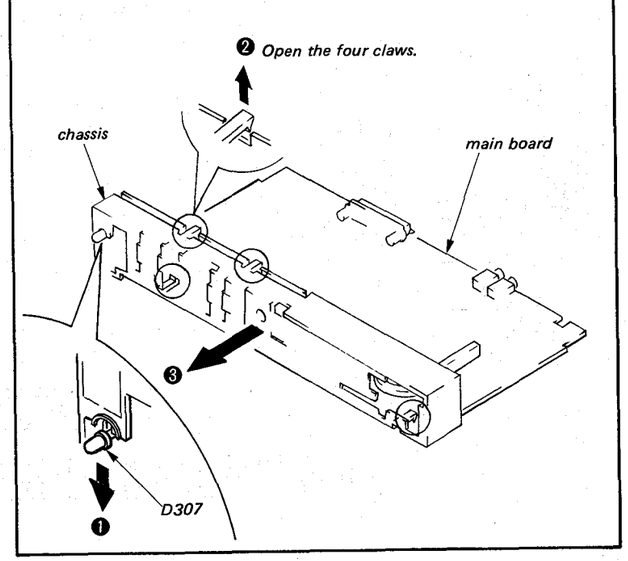
SPEAKER



POWER BOARD

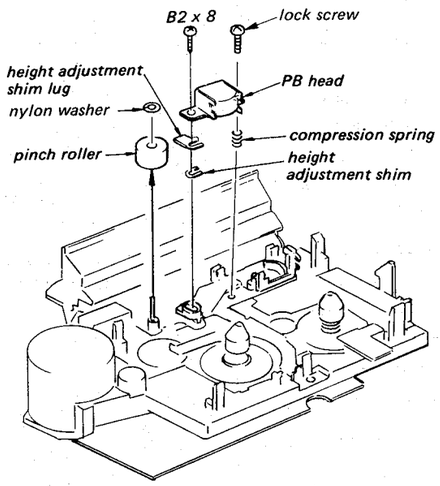


CHASSIS

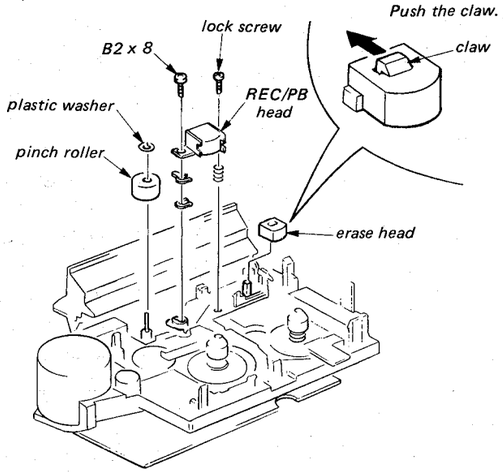


HEAD AND PINCH ROLLER

DECK A



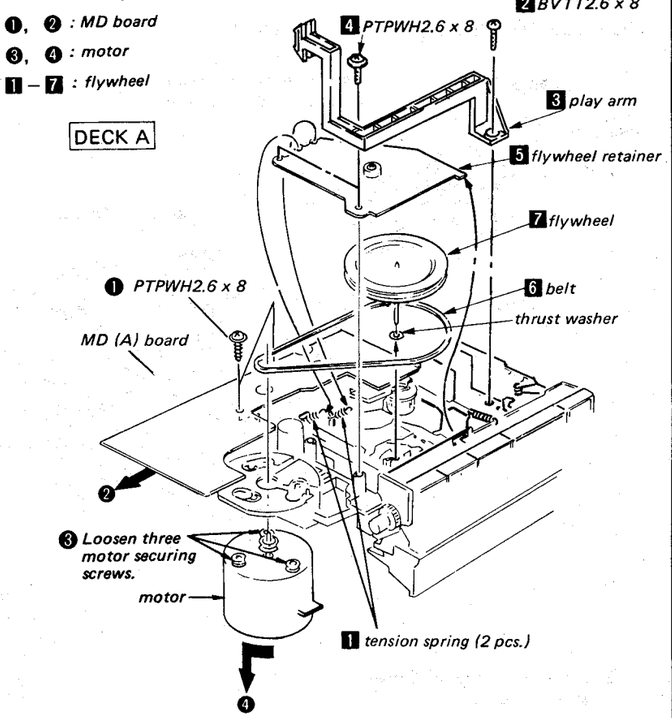
DECK B



MD BOARD, MOTOR AND FLYWHEEL

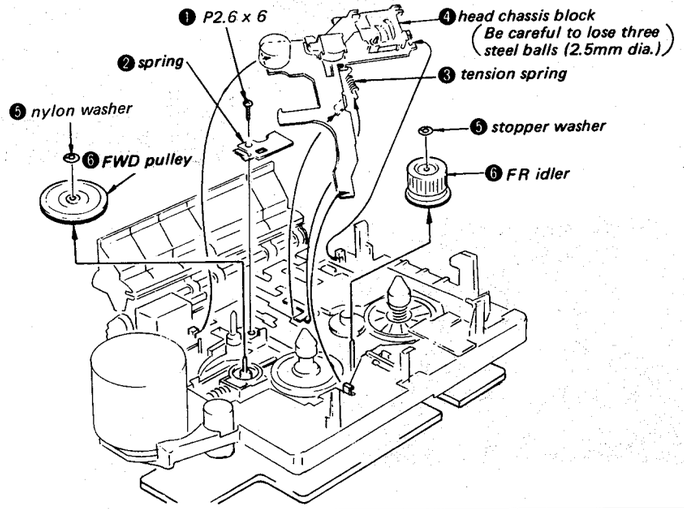
❶, ❷ : MD board
❸, ❹ : motor
1 – 7 : flywheel

DECK A

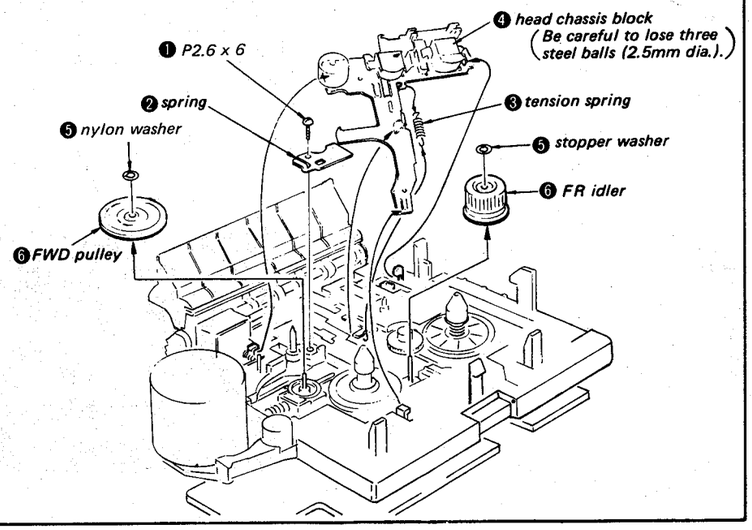


FWD PULLEY AND FR IDLER

DECK A

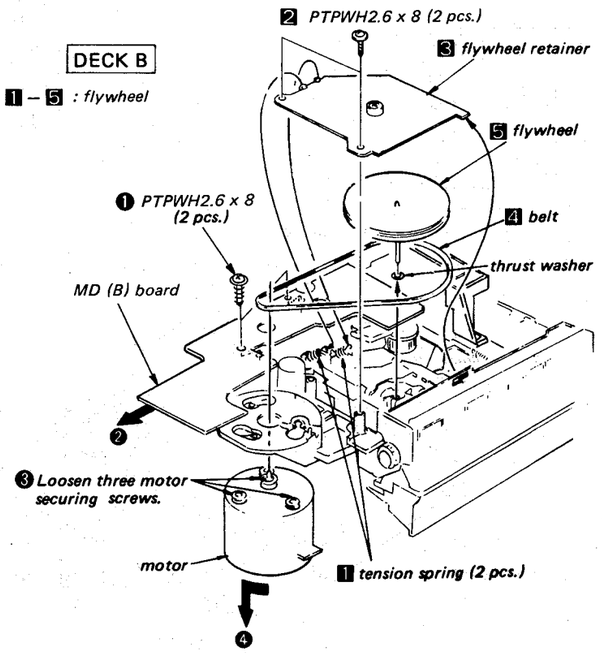


DECK B



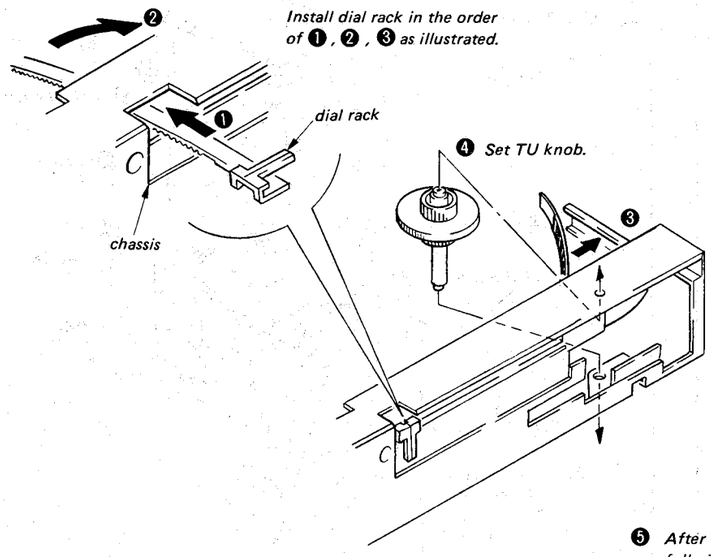
DECK B

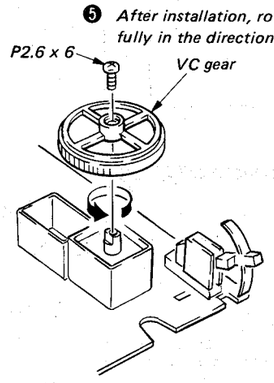
1 – 5 : flywheel



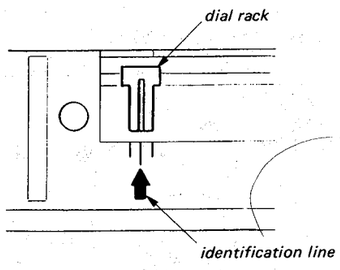
CFS-W440L

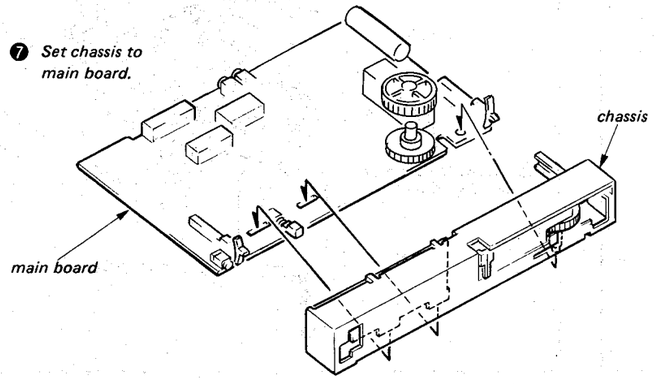
2-2. POINTER DRIVE BLOCK INSTALLATION





❻ Set dial rack to identification line as illustrated below.





SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS AND MEASUREMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

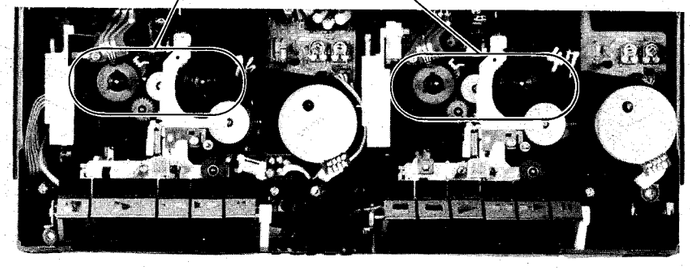
2. Demagnetize the record/playback and erase head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque Meter	Meter Reading
Playback	CQ-102C	25 – 50 g-cm (0.34 – 0.69 oz-inch)
Rewind	CQ-201B	85 – 120 g-cm (1.17 – 1.66 oz-inch)
Fast Forward	CQ-201B	more than 85 g-cm (more than 1.17 oz-inch)
Back Tension	CQ-102C	2.5 – 5 g-cm (0.03 – 0.07 oz-inch)

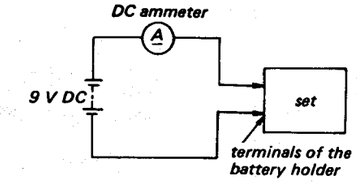
Tape Tension Measurement

Meter	Meter Reading
CQ-403A	more than 170g (5.99 oz)

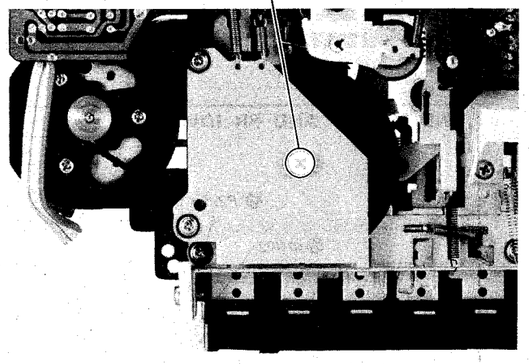


Flywheel Thrust Play Adjustment (for both decks A, B)

– Playback Mode –



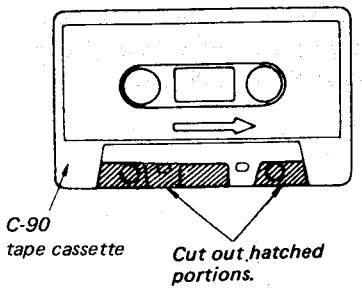
1. Turn the thrust screw counterclockwise until the screw tip leaves from the flywheel shaft.
2. Gradually turn the thrust screw clockwise to the position where the motor current suddenly increases.
3. Then, turn the thrust screw counterclockwise about ¼ turn from the position obtained in step 2.
4. Secure the adjustment screw with locking compound.



Tape Path Adjustment

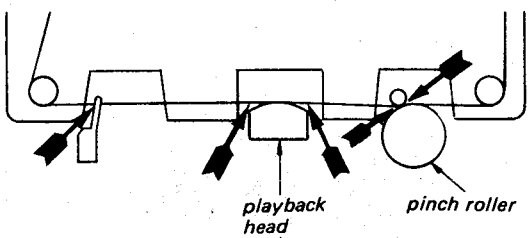
Procedure:

1. Prepare an adjustment cassette as shown below.



2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions shown by arrow.

– DECK A –



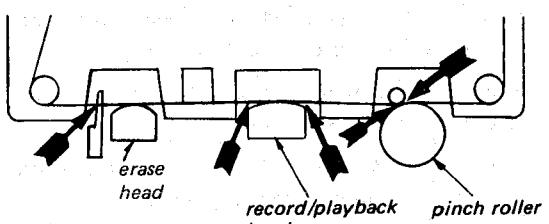
height adjustment shim

Part No.	t (mm)
3-578-138-01	0.1
3-578-138-11	0.2
3-578-138-21	0.3

height adjustment shim

Part No.	t (mm)
3-313-386-11	0.2
3-313-386-21	0.3
3-313-386-31	0.5

– DECK B –

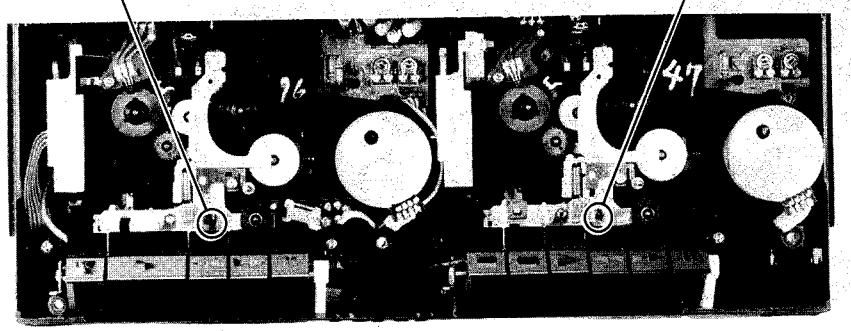


height adjustment shim

Part No.	t (mm)
3-578-138-01	0.1
3-578-138-11	0.2
3-578-138-21	0.3

height adjustment shim

Part No.	t (mm)
3-313-386-11	0.2
3-313-386-21	0.3
3-313-386-31	0.5

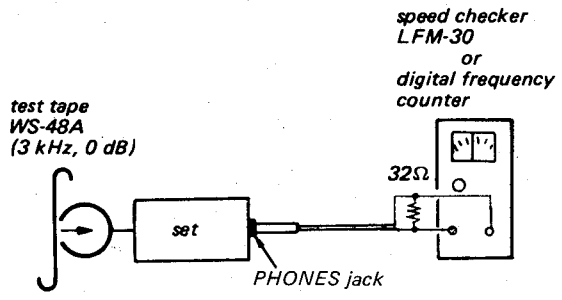


3-2. TAPE RECORDER SECTION ELECTRICAL ADJUSTMENTS

Tape Speed Adjustment (for both decks A, B)

Procedure:

Mode: playback



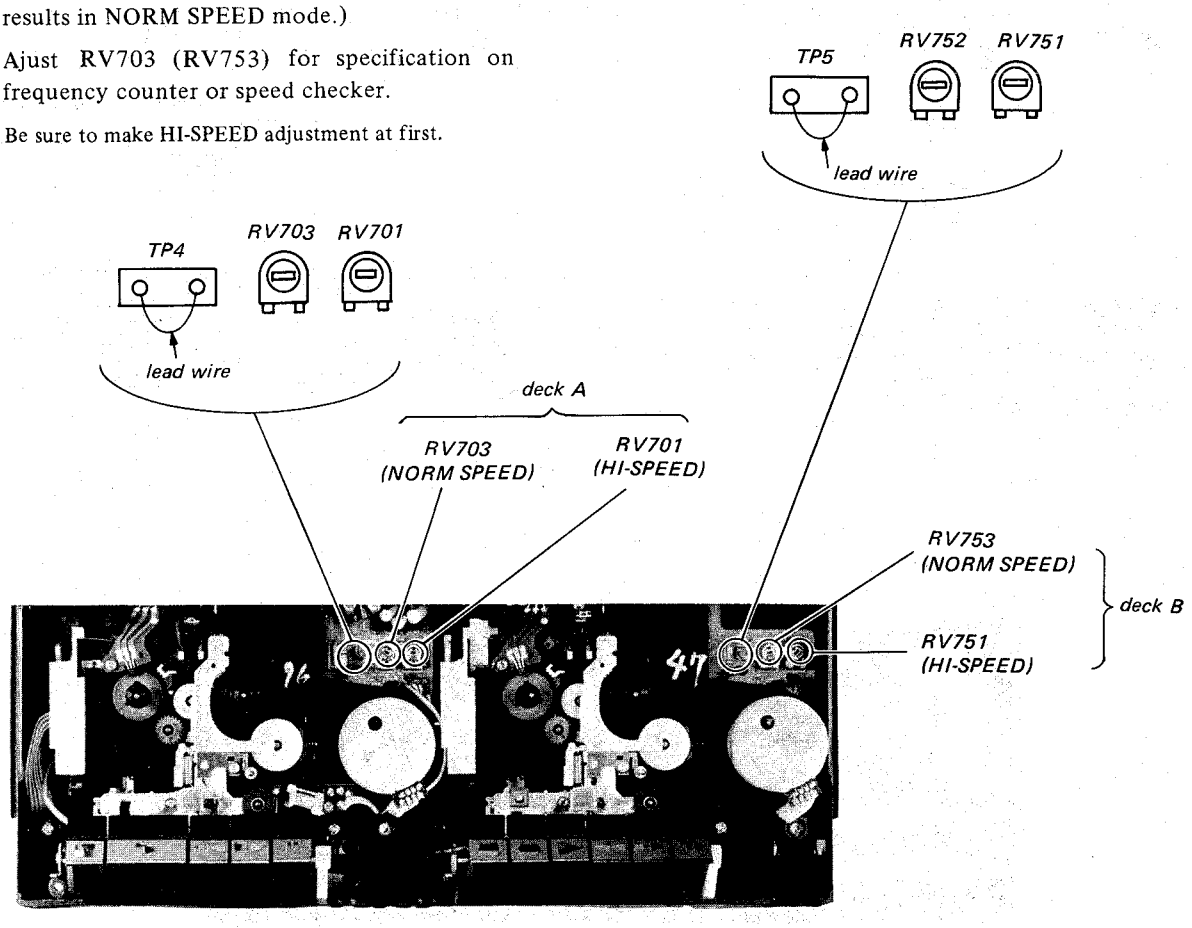
1. Short TP4 (TP5) with lead wire to place the set to HI-SPEED mode.
2. Set test tape WS-48A to cassette deck A (deck B) and place the set in playback mode.
3. Adjust RV701 (RV751) for specification on frequency counter or speed checker.
4. Remove lead wire connected in step 1. (it results in NORM SPEED mode.)
5. Ajust RV703 (RV753) for specification on frequency counter or speed checker.

Note: Be sure to make HI-SPEED adjustment at first.

Specification:

Tape speed	Digital frequency counter	Speed checker
HI-SPEED	5,820 – 6,180Hz	± 3%
NORM SPEED	2,910 – 3,090Hz	

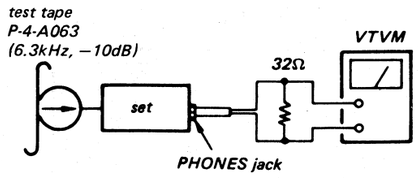
Frequency difference between the beginning and the end of the tape should be within ±1% (±60 Hz: HI-SPEED, ±30 Hz: NORM SPEED).



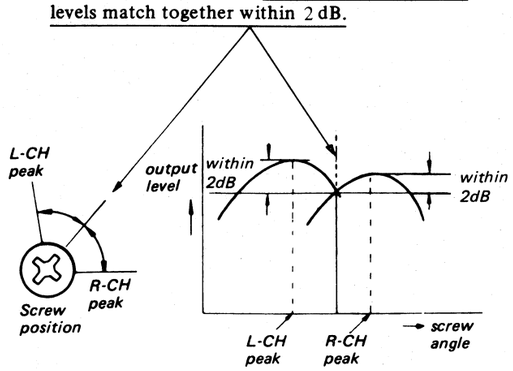
Playback Head Azimuth Adjustment (Deck A)
Record/Playback Head Azimuth Adjustment (Deck B)

Procedure:

1. Mode: playback

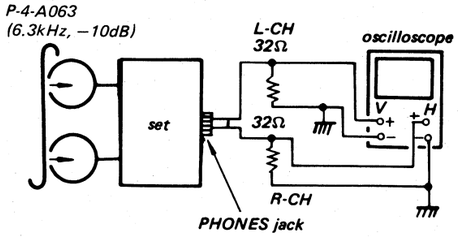


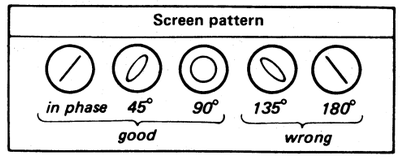
2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2 dB.



3. Phase Check

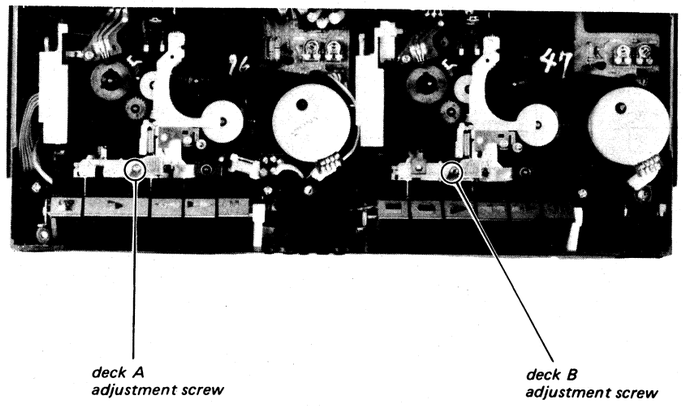
Mode: playback





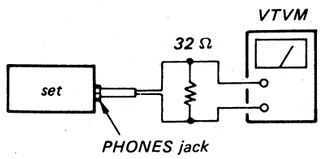
Note: Finish the screw adjustment with a turn in the clockwise direction. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location:

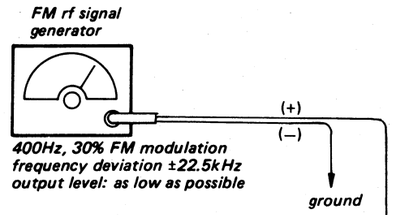


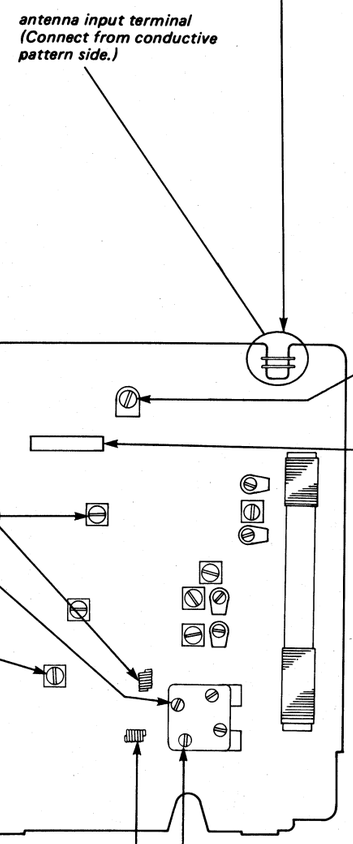
3-3. RADIO SECTION ELECTRICAL ADJUSTMENTS

FM Section



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.





FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
108.0MHz	87.35MHz
CT2	L4

T2	T1
Adjust for a maximum reading on VTVM.	
FM IF ALIGNMENT	

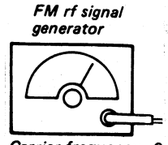
- FM tracking adjustment should be made after FM IF alignment.

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
87.35MHz	L2
108.0MHz	CT1

VCO Adjustment

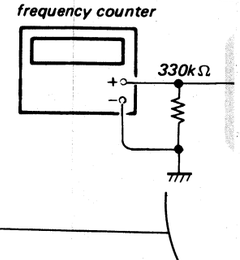
A) Regular Method

Procedure:



Carrier frequency: 9
1kHz, 30% FM modu
frequency deviation
Output level: 562μV

1. Connect frequency cou
2. Tune the set to 98MHz.
3. Adjust RV2 for 38kHz frequency counter.



B) Simple Method

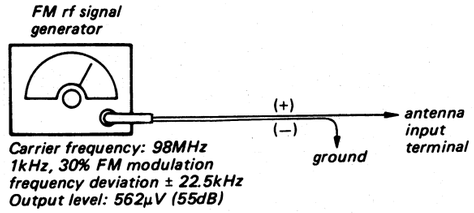
Procedure:

1. Tune the set to the FI
2. Turn RV2 clockwis memorize the light STEREO lamp.
3. Secure RV2 at the ce of both turns as show

VCO Adjustment

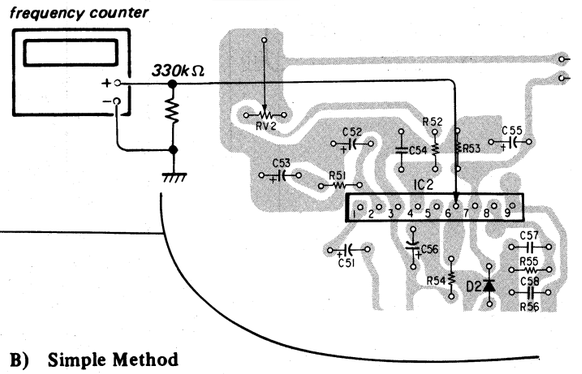
A) Regular Method

Procedure:



1. Connect frequency counter to it as shown below.
2. Tune the set to 98MHz.
3. Adjust RV2 for 38kHz ± 0.2kHz reading on the frequency counter.

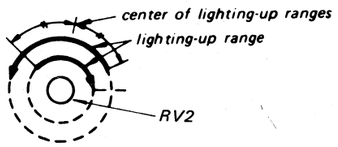
MAIN BOARD – *Conductor Side* –



B) Simple Method

Procedure:

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV2 clockwise or counterclockwise and memorize the lighting-up range of the FM STEREO lamp.
3. Secure RV2 at the center of the lighting-up range of both turns as shown below.

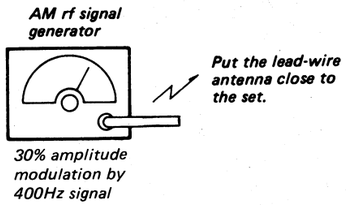


MW/LW/SW Section

MW/LW

Setting:

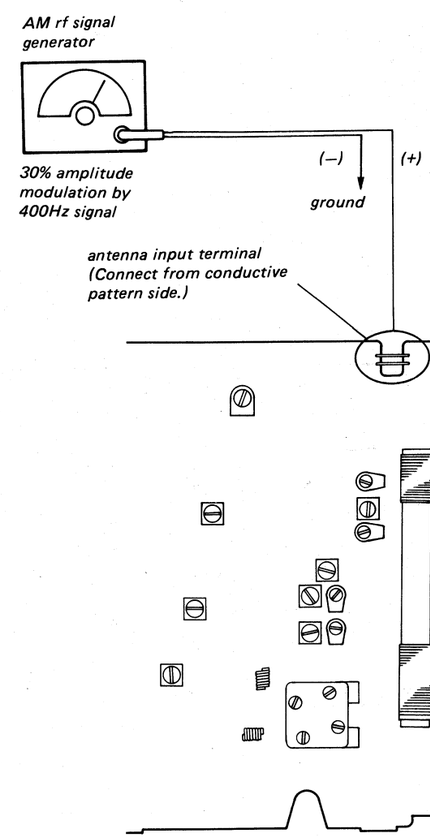
FUNCTION switch: RADIO
BAND switch: MW/LW

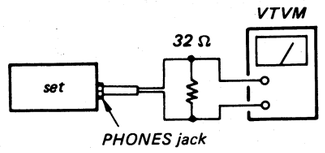


SW

Setting:

FUNCTION switch: RADIO
BAND switch: SW





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.
- Set the FINE TUNING knob in the center position for the SW adjustments.

SW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
18.4MHz	5.8MHz
CT5	L8

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
240kHz	160kHz
CT6	L9-3, 4

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
520kHz	1,680kHz
L11	CT4

LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
265kHz	CT8
145kHz	L12

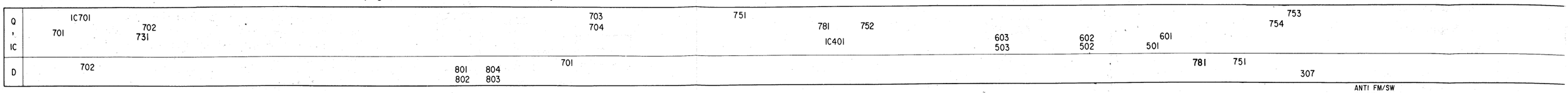
455kHz	T3
Adjust for a maximum reading on VTVM.	
AM IF ALIGNMENT	

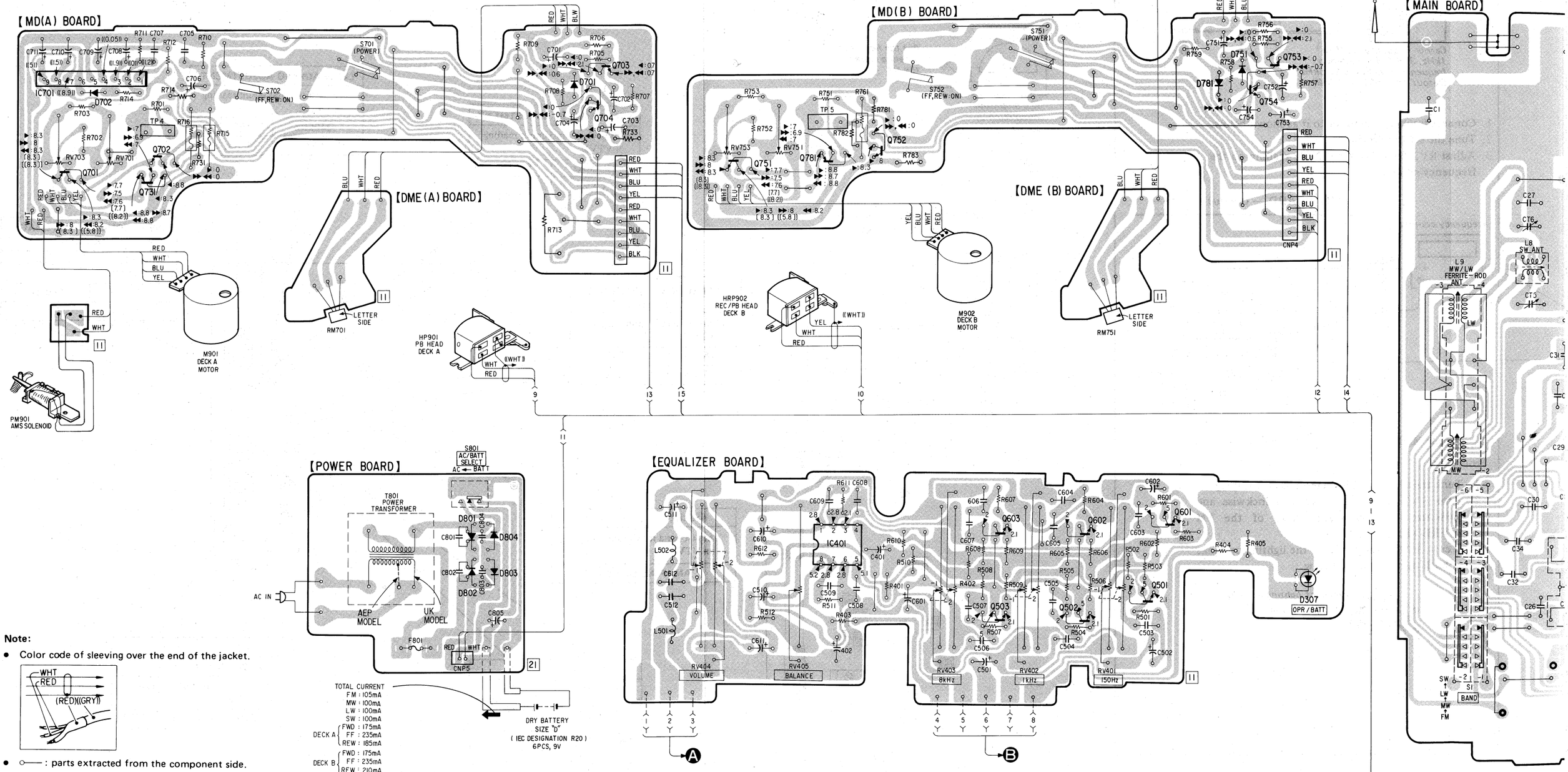
L10	CT7
5.8MHz	18.4MHz
Adjust for a maximum reading on VTVM.	
SW FREQUENCY COVERAGE ADJUSTMENT	

CT3	L9-1, 2
1,400kHz	620kHz
Adjust for a maximum reading on VTVM.	
MW TRACKING ADJUSTMENT	

4-1. MOUNTING DIAGRAM — *Conductor Side* —

• See page 24 for semiconductor lead layouts.





Note:

- Color code of sleeving over the end of the jacket.

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- [ ]+ : indicates side identified with part number.

TOTAL CURRENT
FM : 105mA
MW : 100mA
LW : 100mA
SW : 100mA
DECK A { FWD : 175mA, FF : 235mA, REW : 185mA
DECK B { FWD : 175mA, FF : 235mA, REW : 210mA, REC : 193mA
DUBBING { NORMAL SPEED : 285mA, HIGH SPEED : 296mA

DRY BATTERY SIZE "D" (IEC DESIGNATION R20) 6PCS, 9V

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

A B C D E F G H I J

【MAIN BOARD】

ANTI FM/SW TELESCOPIC ANTENNA

J201 R EXT MIC J101

SP902 SPEAKER SP904 SPEAKER SP903 SPEAKER SP901 SPEAKER

RIGHT LEFT

S305 FM MODE MONO ← STEREO ← STEREO

ISS 3 → 2 → 1

IC1 IC2 IC201 IC301 IC101 IC302

Q205 Q105 Q308 Q301 Q302 Q304 Q351 Q303 Q101 Q201 Q1 Q2 Q3 Q202 Q102 Q203 Q103 Q206 Q106 Q309

D202 D1 D2 D3 D352 D303 D102 D353 D351 D304 D354 D302 D309 D101 D201 D301 D308 D312 D305 D306

T2 FM DET T3 AM IFT T1 FM IFT L4 FM OSC L2 FM RF L3 FM IF

L9 MW/LW FERRITE ROD ANT L8 SW ANT L11 MW OSC L12 LW OSC L10 SW OSC L5 T301 BIAS OSC

S303 PB DECK A → DECK B

S301 REC/PB RB → REC

S304 REC MUTE ON OFF

S302 FUNCTION TAPE (RADIO OFF) DUBBING (NORMAL SPEED) DUBBING (HIGH SPEED) RADIO

CNP1 CNP2

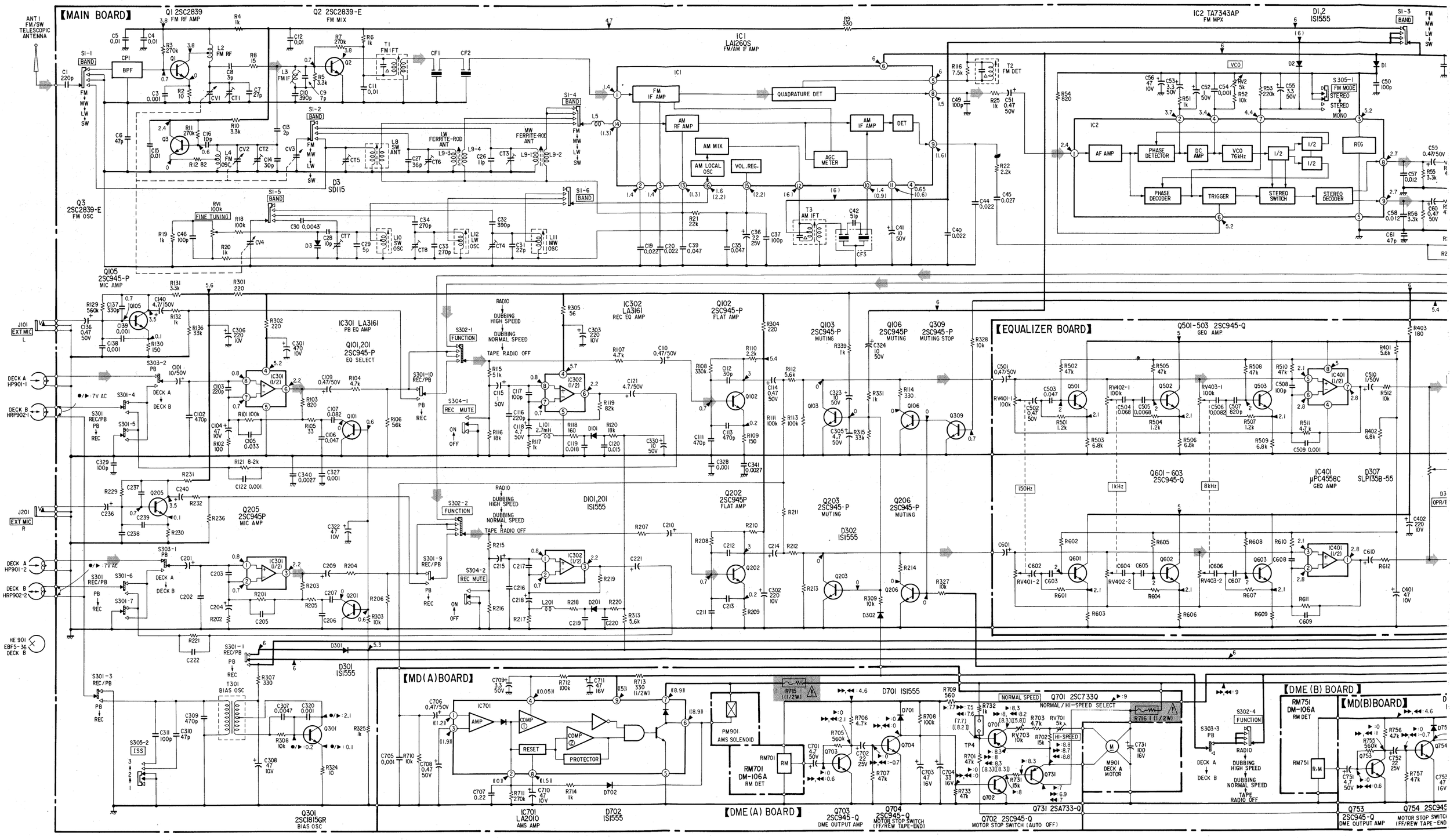
SW LW MW FM S1 BAND

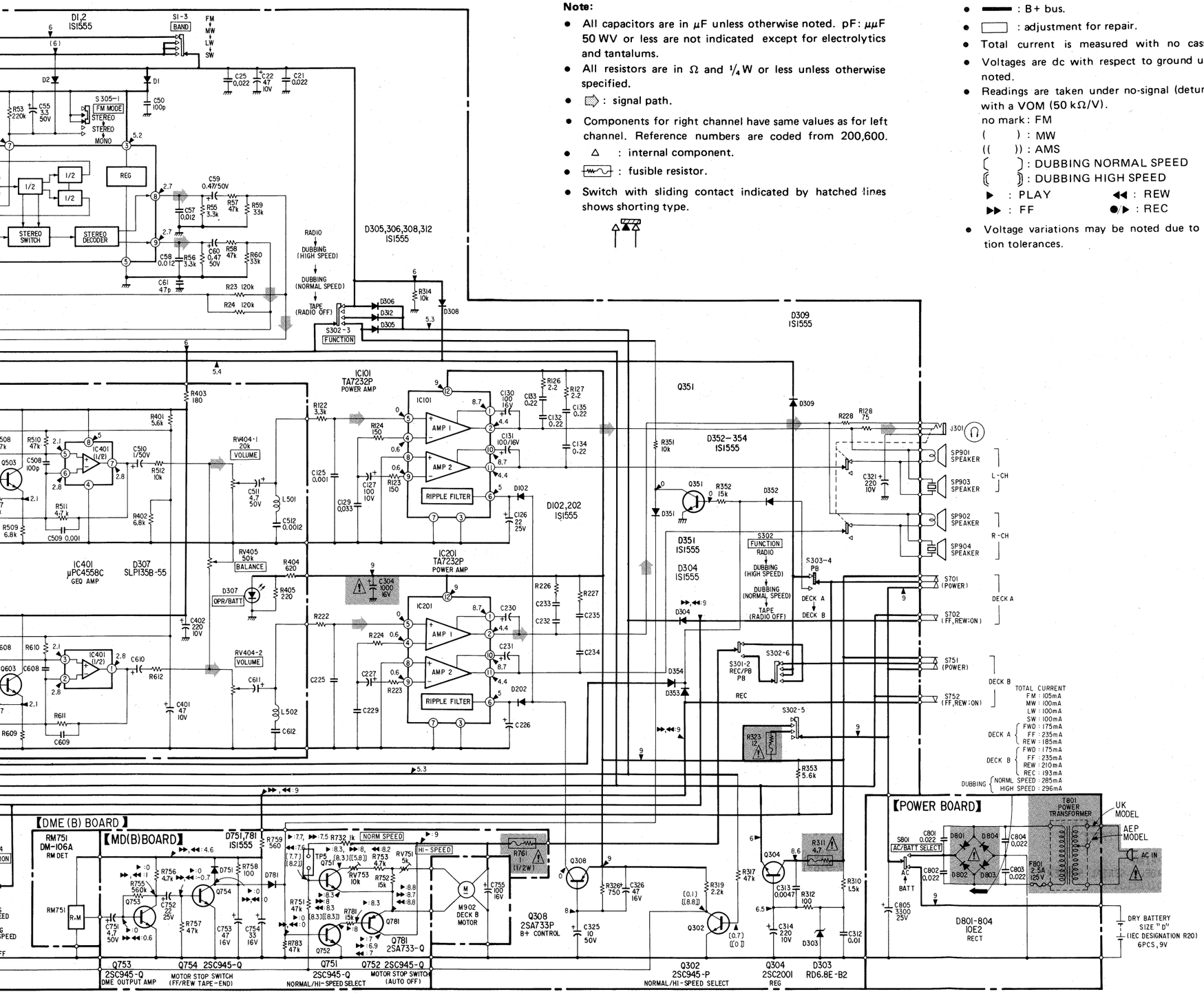
CP1 BPF

J301

9 - 13

4-2. SCHEMATIC DIAGRAM





Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ⇨ : signal path.
- Components for right channel have same values as for left channel. Reference numbers are coded from 200,600.
- △ : internal component.
- ⏦ : fusible resistor.
- Switch with sliding contact indicated by hatched lines shows shorting type.

- ▬ : B+ bus.
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
  no mark : FM
  ( ) : MW
  (( )) : AMS
  〔 〕 : DUBBING NORMAL SPEED
  ⟦ ⟧ : DUBBING HIGH SPEED
  ▶ : PLAY ◀◀ : REW
  ▶▶ : FF ●/▶ : REC
- Voltage variations may be noted due to normal production tolerances.

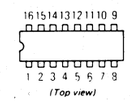
- Switch

Ref. No.	Switch	Position
S1	BAND	FM
S301	REC/PB	PB
S302	FUNCTION	RADIO
S303	PB	DECK A
S304	REC MUTE	OFF
S305	ISS/FM MODE	1/STEREO
S701	DECK A POWER	OFF
S702	DECK A FF, REW	OFF
S751	DECK B POWER	OFF
S752	DECK B FF, REW	OFF
S801	AC/BATT SELECT	BATT

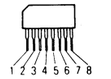
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- **Semiconductor Lead Layouts**

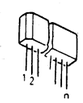
LA1210
LA1260S



LA3161



TA7232P

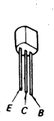


TA7343AP

μPC4558C

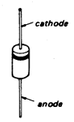
2SA1175

2SC2001

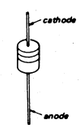


2SC2458
2SC2839
2SC2839-D

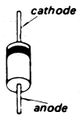
1S2139
10E2



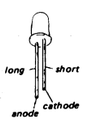
1SS119



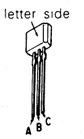
RD6.8E-B2



SLP135B-55



DM106A

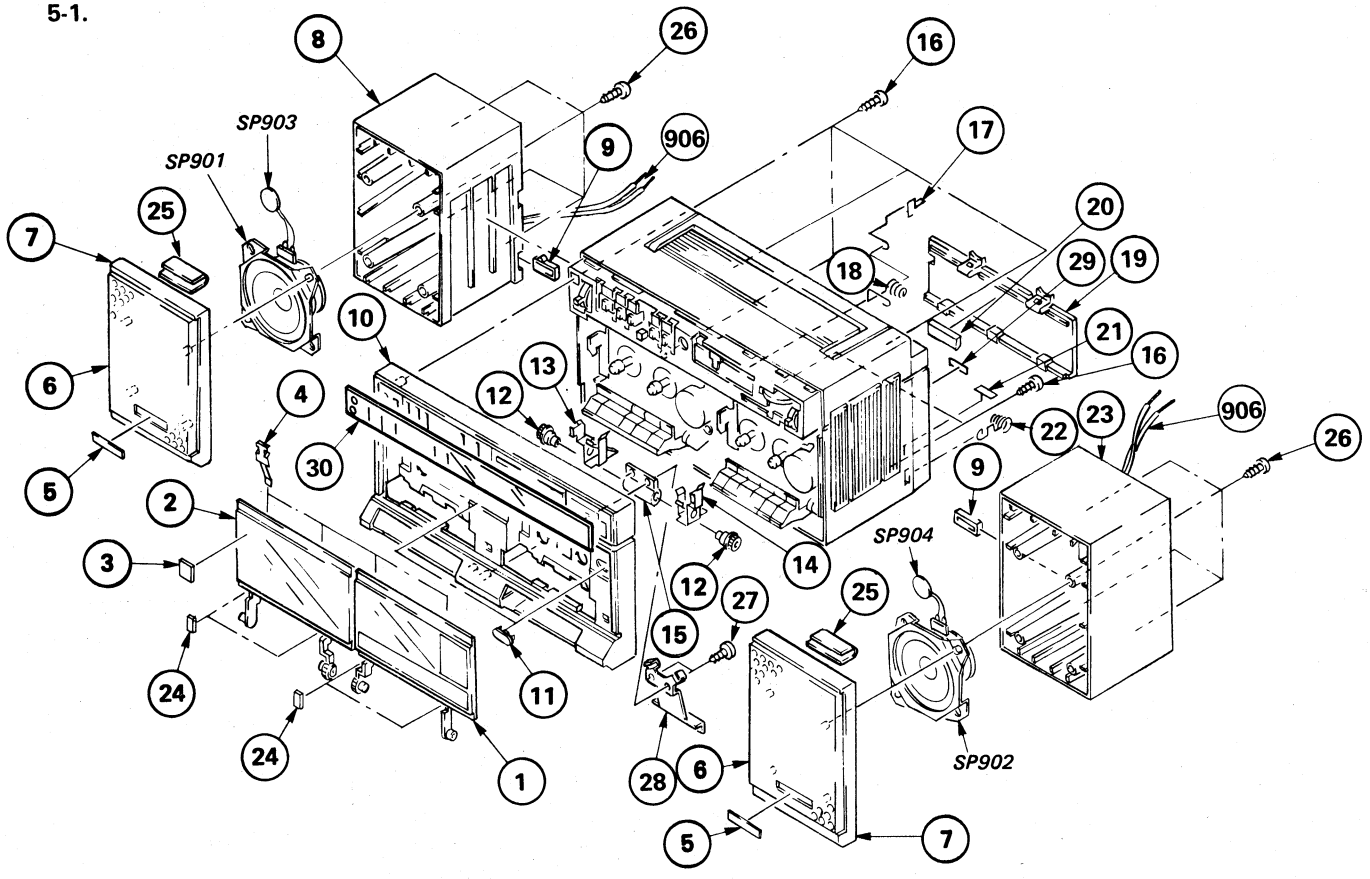


SECTION 5
EXPLODED VIEWS AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

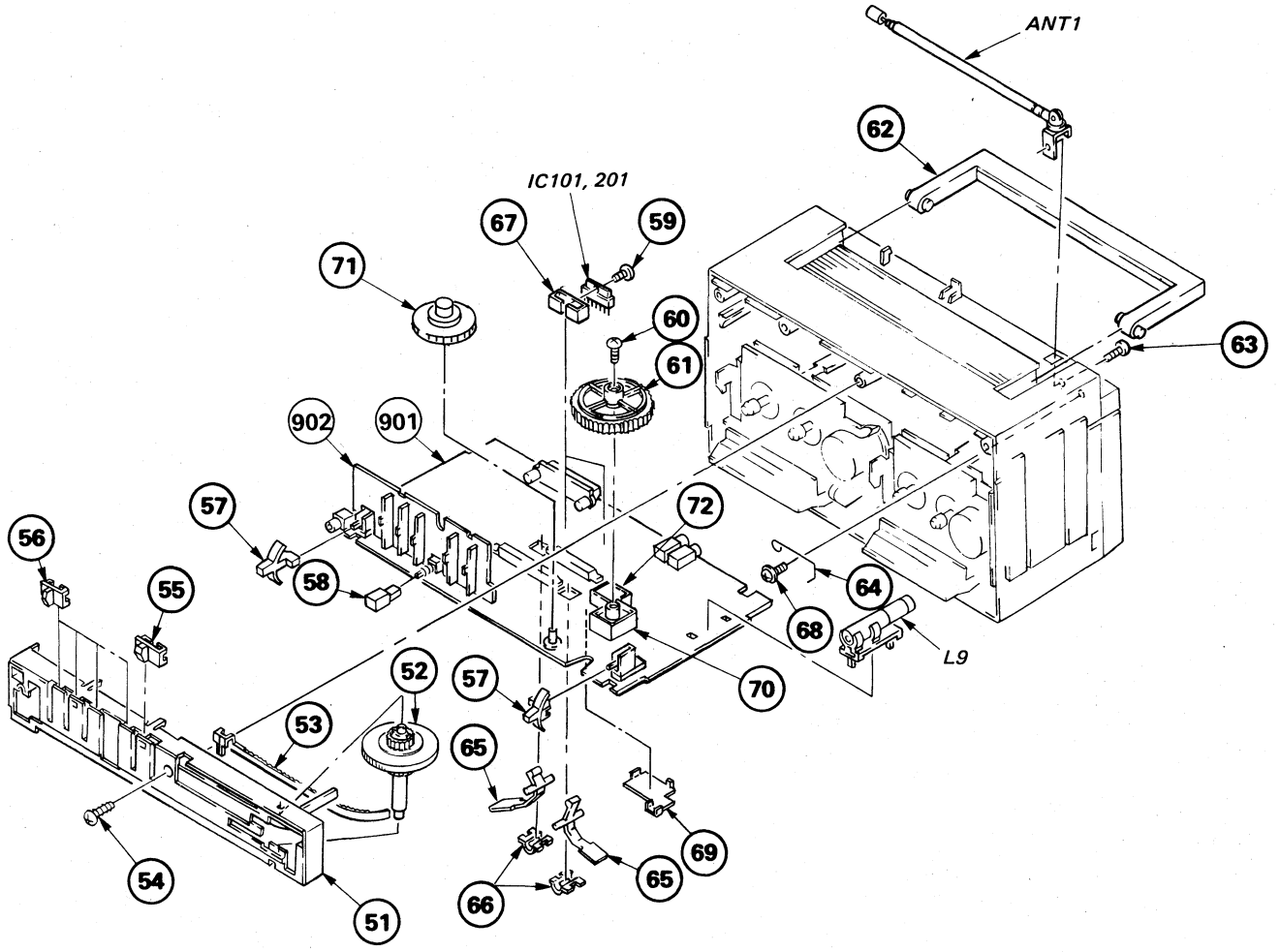
5-1.



No.	Part No.	Description	Remarks
1	3-330-719-11	HOLDER (RIGHT), CASSETTE	
2	3-330-720-01	HOLDER (LEFT), CASSETTE	
3	3-703-707-01	STICKER, SONY SYMBOL (21)	
4	3-308-823-01	SPRING	
5	3-849-510-01	BADGE, SONY	
6	3-327-915-01	GRILLE, SPEAKER	
7	3-330-721-01	(SILVER)...BOX (FRONT), SPK	
	3-330-721-11	(BLACK)....BOX (FRONT), SPK	
8	3-319-549-01	(SILVER)...BOX (REAR)(LEFT), SPK	
	3-322-367-11	(BLACK)....BOX (REAR)(LEFT), SPK	
9	3-319-266-01	CLAW, SPK LOCK	
10	3-330-722-01	(SILVER)...CABINET, FRONT	
	3-330-722-11	(BLACK)....CABINET, FRONT	
11	3-327-913-01	(SILVER)...CAP, ADJUSTMENT HOLE	
	3-327-913-11	(BLACK)....CAP, ADJUSTMENT HOLE	
12	3-326-411-01	GEAR, EJECT	
13	3-327-933-01	SPRING (LEFT)	
14	3-327-932-01	SPRING (RIGHT)	
15	*3-327-902-01	BRACKET, EJECT	
16	7-685-651-11	SCREW +BVTP 3X20 TYPE1	
17	3-327-912-01	TERMINAL, PLUS	
18	3-327-911-01	TERMINAL, MINUS	

No.	Part No.	Description	Remarks
19	3-327-938-01	(SILVER)...LID, BATTERY CASE	
	3-327-938-11	(BLACK)....LID, BATTERY CASE	
20	4-308-878-XX	CUSHION, BATTERY	
21	3-527-213-00	(AEP)...LABEL, SERIAL NUMBER	
22	*3-327-910-01	TERMINAL, BATTERY	
23	3-319-548-01	(SILVER)...BOX (REAR)(RIGHT), SPK	
	3-322-366-11	(BLACK)....BOX (REAR)(RIGHT), SPK	
24	9-911-845-XX	CUSHION (A)	
25	*3-846-311-00	SPACER (D)	
26	7-685-648-71	SCREW +BVTP 3X12 TYPE2 N-S	
27	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	
28	*3-330-703-01	HOLDER, SPRING	
29	3-701-999-02	(UK)....LABEL, SERIAL NUMBER	
30	3-330-718-01	PLATE, INDICATION	
906	1-557-463-11	CORD, SPEAKER	
SP901	1-503-527-11	SPEAKER	
SP902	1-503-527-11	SPEAKER	
SP903	1-529-030-21	BUZZER	
SP904	1-529-030-21	BUZZER	

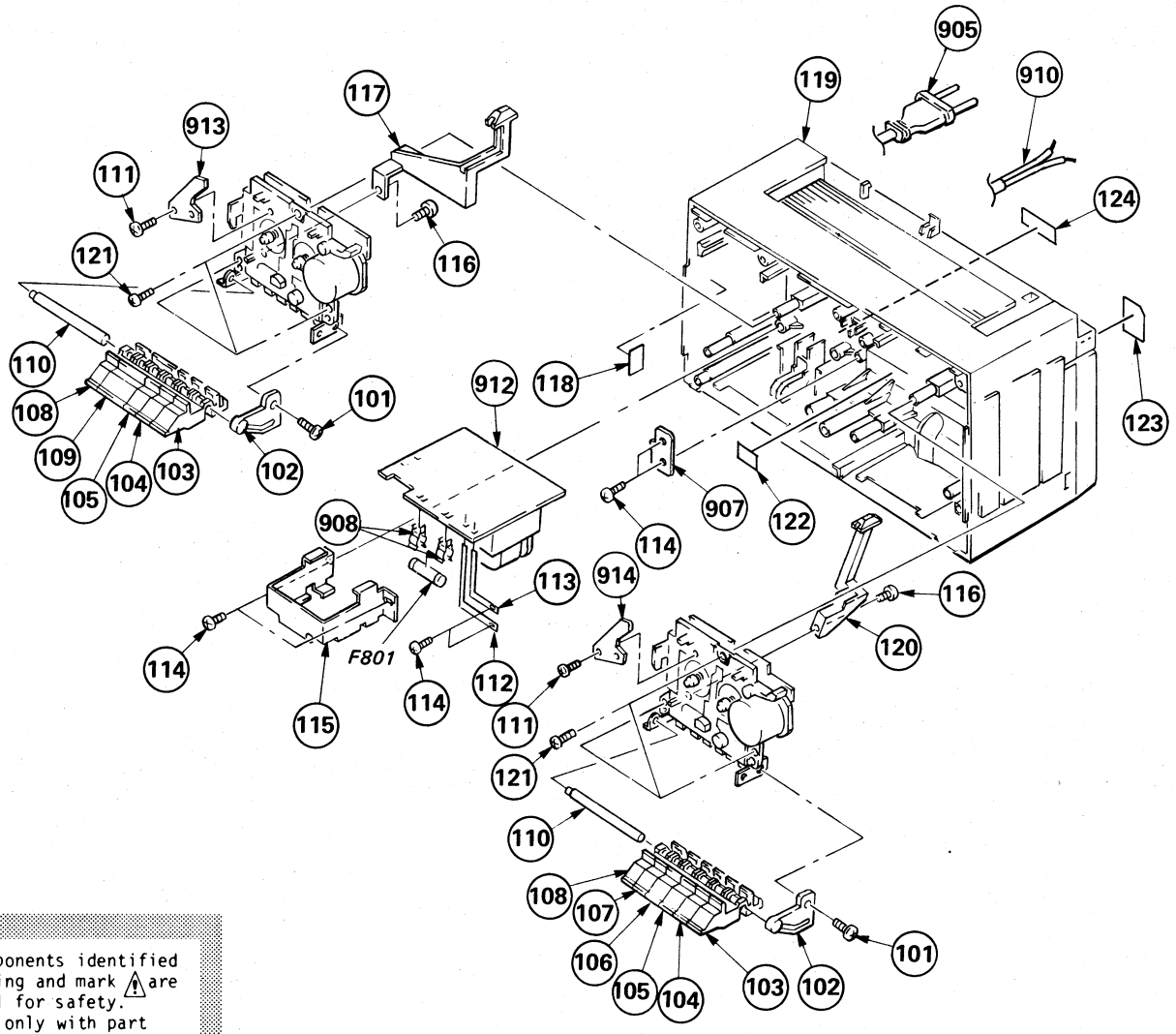
5-2.



No.	Part No.	Description	Remarks
51	3-327-934-01	CHASSIS	
52	3-327-917-01	KNOB, TUN	
53	*3-327-914-11	RACK, DIAL	
54	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	
55	3-327-905-11	KNOB, VOL	
56	3-327-904-11	KNOB, GEQ	
57	3-327-943-01	KNOB, BAND	
58	3-322-334-11	KNOB, REC MUTE	
59	7-682-546-04	SCREW +P 3X5	
60	7-621-770-67	SCREW +P 2.6X6	
61	3-327-901-01	GEAR, VC	
62	3-327-916-01	(SILVER)...HANDLE	
	3-327-916-11	(BLACK)....HANDLE	
63	7-682-552-04	SCREW +B 3X16	
64	*3-327-909-01	SPRING	

No.	Part No.	Description	Remarks
65	3-327-906-01	LEVER, SW	
66	3-319-541-01	BRACKET, REC LEVER	
67	*3-327-949-01	HEAT SINK	
68	4-303-483-00	HEAD, WASHER, TAPPING SCREW	
69	*3-327-960-01	PLATE, SHIELD	
70	*3-327-961-01	CASE (B), SHIELD	
71	3-327-944-01	KNOB, FINE TUNE	
72	*3-327-948-01	CASE, SHIELD	
901	*A-3260-362-A	MOUNTED PCB, MAIN	
902	*A-3279-483-A	(AEP)...MOUNTED PCB, GEQ	
	A-3279-484-A	(UK)....MOUNTED PCB, GEQ	
918	1-536-834-11	TERMINAL BOARD (SPEAKER)	
ANT102	1-501-306-11	ANTENNA, TELESCOPIC	

5-3.

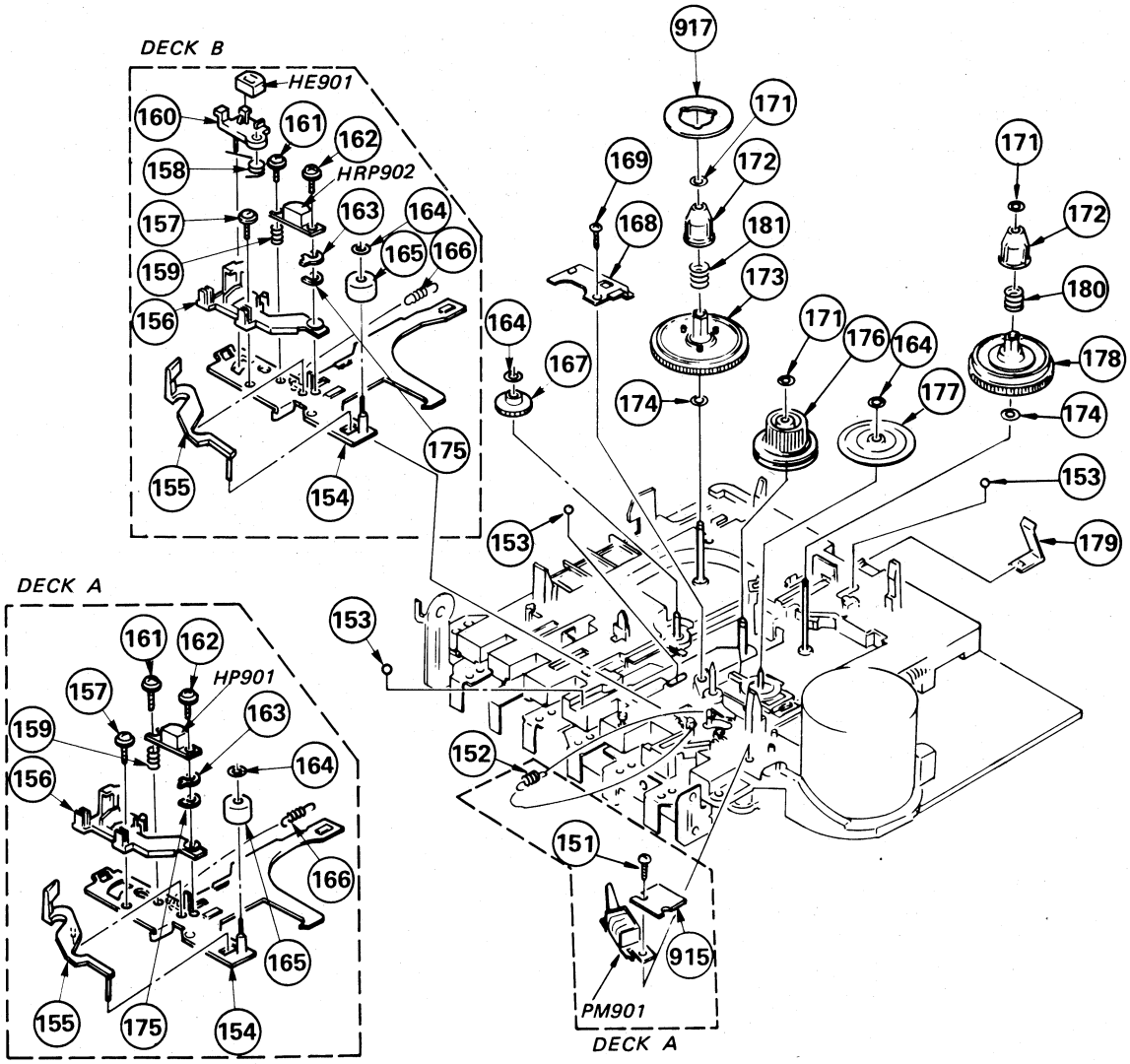


The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remarks
101	7-682-547-04	SCREW +P 3X6	
102	*3-327-903-01	BEARING, MD BUTTON	
103	3-327-920-01	BUTTON, PAUSE	
104	3-327-924-01	BUTTON, FF	
105	3-327-921-01	BUTTON, REW	
106	3-327-923-01	BUTTON (RIGHT), PLAY	
107	3-327-922-01	BUTTON, REC	
108	3-327-918-01	BUTTON, S/E	
109	3-327-919-01	BUTTON (LEFT), PLAY	
110	3-319-513-01	SHAFT, MD BUTTON	
111	7-685-133-14	SCREW +P 2.6X6 TYPE2 SLIT	
112	*3-327-907-01	TERMINAL BOARD (A), POWER	
113	*3-327-908-01	TERMINAL BOARD (B), POWER	
114	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	
115	*3-327-931-01	BRACKET, TRANSFORMER	
116	7-685-793-04	SCREW +BVTT 2.6X8 (S)	

No.	Part No.	Description	Remarks
117	3-327-927-01	ARM, PLAY	
118	*3-703-044-26	LABEL, CAUTION	
119	3-327-940-21	(SILVER)...CABINET, REAR	
	3-327-940-31	(BLACK)....CABINET, REAR	
120	3-327-926-01	ARM, REC	
121	7-685-648-71	SCREW +BVTP 3X12 TYPE2 N-S	
122	*3-330-711-01	(AEP)....LABEL, CORD	
123	3-330-717-01	LABEL, MODEL NUMBER (AEP)	
124	3-703-845-01	(UK)....LABEL, (N)(U/C) MAIN CAUTION	
905	⚠1-551-908-00	CORD, POWER, EURO PLUG	
907	*1-616-248-11	PC BOARD, CORD CLAMP	
908	1-533-162-00	HOLDER, FUSE	
910	1-555-001-12	(UK)....CORD, POWER	
912	*1-616-249-21	PC BOARD, POWER	
913	*1-616-417-11	PC BOARD, DME (A)	
914	1-616-417-11	PC BOARD, DME (B)	

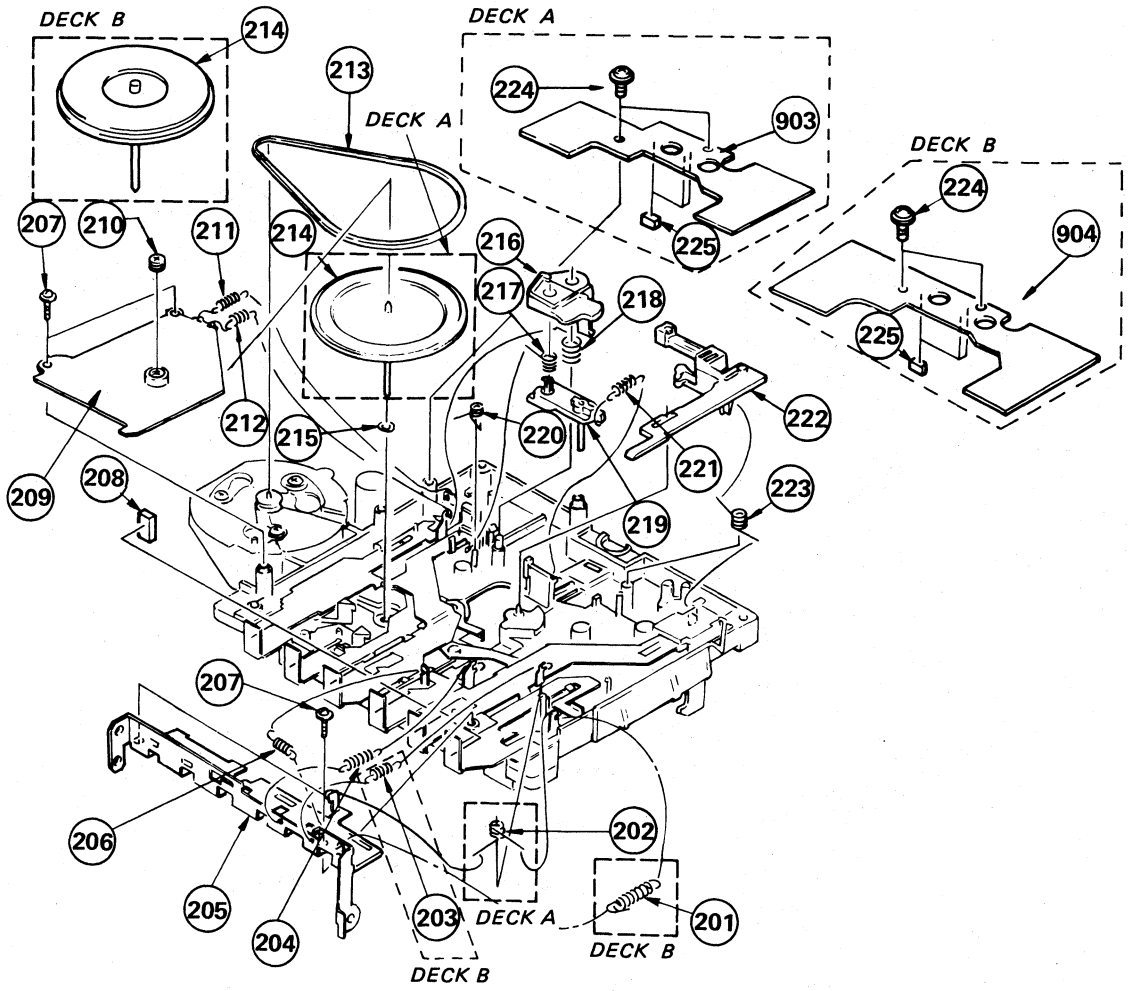
5-4.



No.	Part No.	Description	Remarks
151	7-685-105-14	SCREW (2X8), +PTPWH	
152	3-313-384-01	(DECK A)...SPRING, TENSION	
153	7-671-112-11	BALL, STEEL	
154	X-3313-311-1	CHASSIS ASSY	
155	3-313-316-00	PULLEY	
156	3-334-717-01	BRACKET (M), HEAD	
157	7-621-955-35	SCREW (2MMX5), +PWH	
158	3-313-339-00	(DECK B)...SPRING	
159	3-313-340-00	SPRING, COMPRESSION	
160	3-313-361-00	(DECK B)...ARM, ERASE HEAD	
161	3-701-465-00	SCREW, LOCK	
162	7-621-772-40	SCREW +B 2X8	
163	3-331-108-01	LUG (T), SEAM (t=0.1)	
	3-331-108-11	LUG (T), SEAM (t=0.2)	
	3-331-108-21	LUG (T), SEAM (t=0.3)	
	3-331-108-31	LUG (T), SEAM (t=0.4)	
	3-331-108-41	LUG (T), SEAM (t=0.5)	
164	3-307-948-01	WASHER, NYLON	
165	3-703-597-41	PINCH ROLLER, STANDARD	
166	3-313-342-00	SPRING, TENSION	
167	3-558-620-11	GEAR, REWIND	
168	3-313-328-00	SPRING	

No.	Part No.	Description	Remarks
169	7-685-133-14	SCREW +P 2.6X6 TYPE2 SLIT	
171	3-558-708-01	WASHER, STOPPER	
172	3-313-333-00	CLAW, REEL	
173	3-313-305-00	TABLE, REEL, SUPPLY	
174	3-701-437-21	WASHER	
175	3-578-138-01	SEAM (t=0.1)	
	3-578-138-11	SEAM (t=0.2)	
	3-578-138-21	SEAM (t=0.3)	
176	X-3313-310-1	(DECK A)...IDLER ASSY, FR	
	X-3313-312-1	(DECK B)...IDLER ASSY, FR	
177	X-3313-307-0	PULLEY ASSY, FWD	
178	A-3130-031-A	TABLE ASSY, REEL, TAKE-UP	
179	3-313-902-00	SPRING	
180	3-324-213-01	SPRING, COMPRESSION	
181	3-324-214-01	SPRING, COMPRESSION	
915	*1-602-735-00	(DECK A)...PC BOARD	
917	1-452 209-11	MAGNET	
HE901	8-658-096-02	(DECK B)...HEAD, ERASE EBF 5-36	
HP901	1-543-283-11	(DECK A)...HEAD, MAGNETIC (REC/PB)	
HRP902	1-543-283-11	(DECK B)...HEAD, MAGNETIC (REC/PB)	
PM901	1-454-355-00	(DECK A)...SOLENOID, PLUNGER	

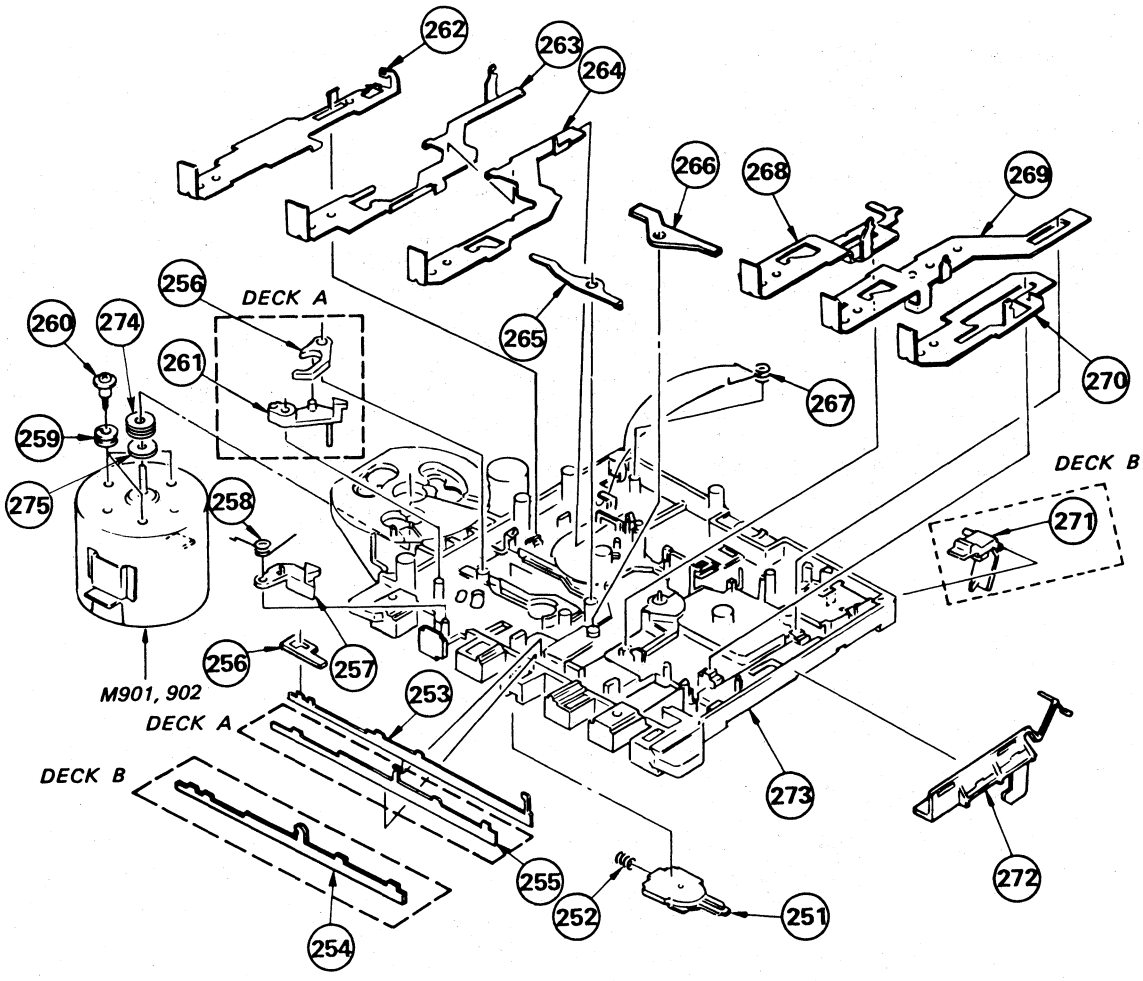
5-5.



No.	Part No.	Description	Remarks
201	3-313-372-01	(DECK B)...SPRING, TENSION	
202	3-313-331-00	(DECK A)...SPRING	
203	3-322-529-01	(DECK B)...SPRING TENSION	
204	3-313-369-00	SPRING, TENSION	
205	*3-313-382-01	RETAINER, LEVER	
206	3-313-272-01	(DECK B)...SPRING TENSION	
	3-322-343-00	(DECK A)...SPRING	
207	7-687-234-11	SCREW +PTPWH 2.6X8	
208	9-911-837-XX	CUSHION, BUTTON	
209	*3-313-319-00	RETAINER, FLY	
210	3-570-205-00	SCREW, THRUST	
211	3-313-349-00	SPRING, TENSION	
212	3-313-348-00	SPRING, TENSION	
213	3-313-389-01	BELT	

No.	Part No.	Description	Remarks
214	A-3109-028-A	(DECK B)...FLYWHEEL ASSY (NS)	
	A-3109-175-A	(DECK A)...FLYWHEEL (W) ASSY	
215	3-313-387-01	WASHER, THRUST (t=0.3)	
	3-313-387-11	WASHER, THRUST (t=0.4)	
216	3-313-314-00	LEVER (SI), FR	
217	3-313-313-00	SPRING	
218	3-313-315-00	SPRING	
219	X-3313-304-0	ARM ASSY, REW	
220	3-313-338-00	SPRING	
221	3-313-365-00	SPRING, TENSION	
222	3-313-356-00	BRAKE	
223	3-313-327-00	SPRING	
224	7-687-234-11	SCREW +PTPWH 2.6X8	
225	3-315-203-00	SPACER, LEAF	
903	*A-3279-479-A	MOUNTED PCB, MD (A)	
904	*A-3279-537-A	MOUNTED PCB, MD (B)	

5-6.



No.	Part No.	Description	Remarks
251	X-3313-301-0	BRACKET ASSY, T PULLEY	
252	3-573-464-00	SPRING, COMPRESSION	
253	*3-313-352-00	PLATE (B), LOCK	
254	*3-313-351-11	(DECK B)...PLATE (A), LOCK	
255	*3-313-351-00	(DECK A)...PLATE (A), LOCK	
256	*3-313-337-00	CHIP, JOINT, S.OFF	
257	3-313-322-02	LEVER (A), S.OFF	
258	3-313-323-00	SPRING	
259	3-570-118-00	CUSHION, MOTOR	
260	3-570-027-00	SCREW, MOTOR	
261	X-3313-306-0	(DECK A)...LEVER (B) ASSY, SHUT-OFF	
262	*3-313-381-21	LEVER (B), PAUSE BUTTON	
263	*3-313-354-21	LEVER, REW BUTTON	

No.	Part No.	Description	Remarks
264	*3-313-353-21	LEVER, FF BUTTON	
265	*3-313-320-00	LEVER, RCP	
266	*3-313-321-11	LEVER, RFR PREVENTION	
267	3-313-378-01	SPRING (A)	
268	*3-313-326-21	LEVER, FWD BUTTON	
269	*3-313-350-21	LEVER, REC BUTTON	
270	*3-313-325-21	LEVER, STOP BUTTON	
271	3-313-357-00	(DECK B)...CLAW, REC PREVENTION	
272	3-313-383-01	CLAW (B), EJECT	
273	A-3102-059-A	CHASSIS ASSY, MECHANICAL	
274	X-3330-617-1	PULLEY (S), MOTOR	
M901	A-3133-251-A	(DECK A)...MOTOR ASSY	
M902	A-3133-251-A	(DECK B)...MOTOR ASSY	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*A-3260-362-A	MOUNTED PCB, MAIN
902	*A-3279-483-A	(AEP)...MOUNTED PCB, GEQ
	A-3279-484-A	(UK)....MOUNTED PCB, GEQ
903	*A-3279-479-A	MOUNTED PCB, MD (A)
904	*A-3279-537-A	MOUNTED PCB, MD (B)
905	⚠1-551-908-00	CORD, POWER, EURO PLUG
906	1-557-463-11	CORD, SPEAKER
907	*1-616-248-11	PC BOARD, CORD CLAMP
908	1-533-162-00	HOLDER, FUSE
910	1-555-001-12	(UK)...CORD, POWER
912	*1-616-249-21	PC BOARD, POWER
913	*1-616-417-11	PC BOARD, DME (A)
914	1-616-417-11	PC BOARD, DME (B)
915	*1-602-735-00	(DECK A)...PC BOARD
917	1-452-209-11	MAGNET
918	1-536-834-11	TERMINAL BOARD (SPEAKER)
ANT102	1-501-306-11	ANTENNA, TELESCOPIC

C1	1-102-110-00	CERAMIC	220PF	10%	50V
C3	1-101-001-00	CERAMIC	0.001MF		50V
C4	1-101-004-00	CERAMIC	0.01MF		50V
C5	1-101-004-00	CERAMIC	0.01MF		50V
C6	1-101-880-00	CERAMIC	47PF	5%	50V
C7	1-102-961-00	CERAMIC	27PF	5%	50V
C8	1-102-936-00	CERAMIC	3PF	0.25PF	50V
C9	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C10	1-102-113-00	CERAMIC	390PF	10%	50V
C11	1-101-004-00	CERAMIC	0.01MF		50V
C12	1-101-004-00	CERAMIC	0.01MF		50V
C13	1-102-502-00	CERAMIC	2PF	0.25PF	50V
C14	1-102-645-00	CERAMIC	33PF	5%	50V
C15	1-101-004-00	CERAMIC	0.01MF		50V
C16	1-102-508-00	CERAMIC	10PF	0.5PF	50V
C19	1-101-005-00	CERAMIC	0.022MF		50V
C20	1-101-005-00	CERAMIC	0.022MF		50V
C21	1-101-005-00	CERAMIC	0.022MF		50V
C22	1-123-306-00	ELECT	47MF	20%	10V
C25	1-101-005-00	CERAMIC	0.022MF		50V
C26	1-102-948-00	CERAMIC	11PF	5%	50V
C27	1-102-890-00	CERAMIC	36PF	5%	50V
C28	1-102-508-00	CERAMIC	10PF	0.5PF	50V
C29	1-102-281-00	CERAMIC	5PF	0.5PF	50V
C30	1-103-740-00	POLYSTYRENE	0.0043MF	5%	50V
C31	1-102-751-00	CERAMIC	22PF	5%	50V
C32	1-104-067-00	POLYSTYRENE	390PF	5%	50V
C33	1-103-711-00	POLYSTYRENE	270PF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C34	1-103-711-00	POLYSTYRENE	270PF	5%	50V
C35	1-101-006-00	CERAMIC	0.047MF		50V
C36	1-123-330-00	ELECT	22MF	20%	25V
C37	1-102-973-00	CERAMIC	100PF	5%	50V
C39	1-101-006-00	CERAMIC	0.047MF		50V
C40	1-101-005-00	CERAMIC	0.022MF		50V
C41	1-123-356-00	ELECT	10MF	20%	50V
C42	1-101-882-00	CERAMIC	51PF	5%	50V
C44	1-161-055-00	CERAMIC	0.022MF	10%	25V
C45	1-161-056-00	CERAMIC	0.027MF	10%	25V
C46	1-102-973-00	CERAMIC	100PF	5%	50V
C49	1-102-973-00	CERAMIC	100PF	5%	50V
C50	1-102-973-00	CERAMIC	100PF	5%	50V
C51	1-123-379-00	ELECT	0.47MF	20%	50V
C52	1-123-380-00	ELECT	1MF	20%	50V
C53	1-123-382-00	ELECT	3.3MF	20%	50V
C54	1-104-077-00	POLYSTYRENE	0.001MF	5%	50V
C55	1-123-382-00	ELECT	3.3MF	20%	50V
C56	1-123-306-00	ELECT	47MF	20%	10V
C57	1-161-052-00	CERAMIC	0.012MF	10%	25V
C58	1-161-052-00	CERAMIC	0.012MF	10%	25V
C59	1-123-379-00	ELECT	0.47MF	20%	50V
C60	1-123-379-00	ELECT	0.47MF	20%	50V
C61	1-101-880-00	CERAMIC	47PF	5%	50V
C101	1-123-356-00	ELECT	10MF	20%	50V
C102	1-102-114-00	CERAMIC	470PF	10%	50V
C103	1-102-110-00	CERAMIC	220PF	10%	50V
C104	1-123-306-00	ELECT	47MF	20%	10V
C105	1-130-489-00	MYLAR	0.033MF	5%	50V
C106	1-130-491-00	MYLAR	0.047MF	5%	50V
C107	1-136-164-00	FILM	0.082MF	5%	50V
C109	1-123-379-00	ELECT	0.47MF	20%	50V
C110	1-123-379-00	ELECT	0.47MF	20%	50V
C111	1-102-114-00	CERAMIC	470PF	10%	50V
C112	1-102-962-21	CERAMIC	30PF	5%	50V
C113	1-102-114-00	CERAMIC	470PF	10%	50V
C114	1-123-379-00	ELECT	0.47MF	20%	50V
C115	1-123-380-00	ELECT	1MF	20%	50V
C116	1-102-110-00	CERAMIC	220PF	10%	50V
C117	1-102-973-00	CERAMIC	100PF	5%	50V
C118	1-123-369-00	ELECT	4.7MF	20%	50V
C119	1-136-156-00	MYLAR	0.018MF	5%	50V
C120	1-130-485-00	MYLAR	0.015MF	5%	50V
C121	1-123-369-00	ELECT	4.7MF	20%	50V
C122	1-130-471-00	MYLAR	0.001MF	5%	50V
C125	1-102-074-00	CERAMIC	0.001MF	10%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C126	1-123-330-00	ELECT	22MF	20%	25V
C127	1-123-307-00	ELECT	100MF	20%	10V
C129	1-161-057-00	CERAMIC	0.033MF	10%	25V
C130	1-123-333-00	ELECT	100MF	20%	16V
C131	1-123-333-00	ELECT	100MF	20%	16V
C132	1-136-169-00	FILM	0.22MF	5%	50V
C133	1-136-169-00	FILM	0.22MF	5%	50V
C134	1-136-169-00	FILM	0.22MF	5%	50V
C135	1-136-169-00	FILM	0.22MF	5%	50V
C136	1-123-379-00	ELECT	0.47MF	20%	50V
C137	1-102-112-00	CERAMIC	330PF	10%	50V
C138	1-102-074-00	CERAMIC	0.001MF	10%	50V
C139	1-102-074-00	CERAMIC	0.001MF	10%	50V
C140	1-123-369-00	ELECT	4.7MF	20%	50V
C301	1-123-310-00	ELECT	470MF	20%	10V
C302	1-123-308-00	ELECT	220MF	20%	10V
C303	1-123-308-00	ELECT	220MF	20%	10V
C304 ⚠	1-123-324-00	ELECT	1000MF	20%	16V
C305	1-123-369-00	ELECT	4.7MF	20%	50V
C306	1-123-308-00	ELECT	220MF	20%	10V
C307	1-130-479-00	MYLAR	0.0047MF	5%	50V
C308	1-123-306-00	ELECT	47MF	20%	10V
C309	1-130-467-00	MYLAR	470PF	5%	50V
C310	1-101-880-00	CERAMIC	47PF	5%	50V
C311	1-102-973-00	CERAMIC	100PF	5%	50V
C312	1-101-004-00	CERAMIC	0.01MF		50V
C313	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C314	1-123-308-00	ELECT	220MF	20%	10V
C320	1-102-074-00	CERAMIC	0.001MF	10%	50V
C321	1-123-308-00	ELECT	220MF	20%	10V
C322	1-123-306-00	ELECT	47MF	20%	10V
C323	1-123-356-00	ELECT	10MF	20%	50V
C324	1-123-356-00	ELECT	10MF	20%	50V
C325	1-123-356-00	ELECT	10MF	20%	50V
C326	1-123-332-00	ELECT	47MF	20%	25V
C327	1-102-074-00	CERAMIC	0.001MF	10%	50V
C328	1-102-074-00	CERAMIC	0.001MF	10%	50V
C329	1-102-973-00	CERAMIC	100PF	5%	50V
C330	1-123-356-00	ELECT	10MF	20%	50V
C340	1-102-122-00	CERAMIC	0.0027MF	10%	50V
C341	1-102-122-00	CERAMIC	0.0027MF	10%	50V
C401	1-123-306-00	ELECT	47MF	20%	10V
C402	1-123-308-00	ELECT	220MF	20%	10V
C501	1-123-379-00	ELECT	0.47MF	20%	50V
C502	1-123-379-00	ELECT	0.47MF	20%	50V
C503	1-161-059-00	CERAMIC	0.047MF	10%	25V
C504	1-161-023-00	CERAMIC	0.068MF	10%	25V
C505	1-161-049-00	CERAMIC	0.0068MF	10%	25V
C506	1-161-012-00	CERAMIC	0.0082MF	10%	25V
C507	1-102-117-00	CERAMIC	820PF	10%	50V
C508	1-102-973-00	CERAMIC	100PF	5%	50V
C509	1-102-074-00	CERAMIC	0.001MF	10%	50V
C510	1-123-380-00	ELECT	1MF	20%	50V
C511	1-123-369-00	ELECT	4.7MF	20%	50V
C512	1-110-196-00	MYLAR	0.0012MF	5%	50V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C701	1-123-369-00	ELECT	4.7MF	20%	50V
C702	1-123-330-00	ELECT	22MF	20%	25V
C703	1-123-332-00	ELECT	47MF	20%	25V
C704	1-123-318-00	ELECT	33MF	20%	16V
C705	1-102-074-00	CERAMIC	0.001MF	10%	50V
C706	1-123-379-00	ELECT	0.47MF	20%	50V
C707	1-136-169-00	FILM	0.22MF	5%	50V
C708	1-123-379-00	ELECT	0.47MF	20%	50V
C709	1-123-382-00	ELECT	3.3MF	20%	50V
C710	1-123-306-00	ELECT	47MF	20%	10V
C711	1-123-332-00	ELECT	47MF	20%	25V
C731	1-123-333-00	ELECT	100MF	20%	16V
C751	1-123-369-00	ELECT	4.7MF	20%	50V
C752	1-123-330-00	ELECT	22MF	20%	25V
C753	1-123-332-00	ELECT	47MF	20%	25V
C754	1-123-318-00	ELECT	33MF	20%	16V
C755	1-123-333-00	ELECT	100MF	20%	16V
C801	1-101-005-00	CERAMIC	0.022MF		50V
C802	1-101-005-00	CERAMIC	0.022MF		50V
C803	1-101-005-00	CERAMIC	0.022MF		50V
C804	1-101-005-00	CERAMIC	0.022MF		50V
C805	**1-123-500-00**	**ELECT**	**3300MF**		**25V**
CF1	1-527-808-00	FILTER, CERAMIC			
CF2	1-527-808-00	FILTER, CERAMIC			
CF3	1-527-865-00	FILTER, CERAMIC			
CNJ3	*1-562-560-11	SOCKET, CONNECTOR 9P			
CNJ4	*1-562-560-11	SOCKET, CONNECTOR 9P			
CNJ5	*1-561-696-00	SOCKET, CONNECTOR 2P			
CNP1	*1-508-912-00	PIN, CONNECTOR 3P			
CNP2	1-508-913-00	PIN, CONNECTOR 4P			
CNP3	*1-506-667-11	PIN, CONNECTOR 9P			
CNP4	*1-506-667-11	PIN, CONNECTOR 9P			
CNP5	*1-560-596-00	PIN, CONNECTOR 2P			
CP1	1-231-720-00	FILTER, BANDPASS			
CT1-4 CV1-4	1-151-498-11	CAP, VAR, POLYETHYLENE			
CT5	1-141-290-11	CAP, FILM TRIMMER			
CT6	1-141-245-00	TRIMMER, CERAMIC			
CT7	1-141-290-11	CAP, FILM TRIMMER			
CT8	1-141-245-00	TRIMMER, CERAMIC			
D1	8-719-911-19	DIODE 1SS119			
D2	8-719-911-19	DIODE 1SS119			
D3	8-719-713-93	DIODE 1S2839C			
D101	8-719-911-19	DIODE 1SS119			
D102	8-719-911-19	DIODE 1SS119			
D201	8-719-911-19	DIODE 1SS119			
D202	8-719-911-19	DIODE 1SS119			
D301	8-719-911-19	DIODE 1SS119			
D302	8-719-911-19	DIODE 1SS119			
D303	8-719-100-41	DIODE RD6.8E-B2			
D304	8-719-911-19	DIODE 1SS119			
D305	8-719-911-19	DIODE 1SS119			
D306	8-719-911-19	DIODE 1SS119			
D307	8-719-903-39	DIODE SLP135B-55			
D308	8-719-911-19	DIODE 1SS119			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D309	8-719-911-19	DIODE 1SS119
D312	8-719-911-19	DIODE 1SS119
D351	8-719-911-19	DIODE 1SS119
D352	8-719-911-19	DIODE 1SS119
D353	8-719-911-19	DIODE 1SS119
D354	8-719-911-19	DIODE 1SS119
D701	8-719-911-19	DIODE 1SS119
D702	8-719-911-19	DIODE 1SS119
D751	8-719-911-19	DIODE 1SS119
D781	8-719-911-19	DIODE 1SS119
D801 ⚠	8-719-200-02	DIODE 10E2
D802 ⚠	8-719-200-02	DIODE 10E2
D803 ⚠	8-719-200-02	DIODE 10E2
D804 ⚠	8-719-200-02	DIODE 10E2
F801 ⚠	1-532-203-00	FUSE, TIME-LAG
HE901	8-658-096-02	(DECK B)...HEAD, ERASE EBF 5-36
HP901	1-543-283-11	(DECK A)...HEAD, MAGNETIC (REC/PB)
HRP902	1-543-283-11	(DECK B)...HEAD, MAGNETIC (REC/PB)
IC1	8-759-801-24	IC LA1260S
IC2	8-759-203-87	IC TA7343AP
IC101	1-806-765-11	IC TA7232P
IC201	1-806-765-11	IC TA7232P
IC301	8-759-800-66	IC LA3161
IC302	8-759-800-66	IC LA3161
IC401	8-759-145-58	IC UPC4558C
IC701	8-759-800-71	IC LA2010
J101	1-507-578-00	JACK (EXT MIC L)
J201	1-507-578-00	JACK (EXT MIC R)
J301	1-507-806-00	JACK (PHONES)
L2	1-426-180-11	COIL, FM RF
L3	*1-409-293-00	COIL, AIR CORE
L4	*1-425-873-00	COIL
L5	*1-409-293-00	COIL, AIR CORE
L8	1-402-103-11	COIL, ANT (SW)
L9	1-402-176-11	ANTENNA, FERRITE-ROD (LW/MW)
L10	1-406-105-11	COIL, OSC (SW)
L11	1-406-059-00	COIL, OSC
L12	1-406-126-11	COIL, LW OSC
L101	1-407-961-00	MICRO INDUCTOR 2.7MMH
L201	1-407-961-00	MICRO INDUCTOR 2.7MMH
L501	1-409-389-11	COIL, TRAP
L502	1-409-389-11	COIL, TRAP
M901	A-3133-251-A	(DECK A)...MOTOR ASSY
M902	A-3133-251-A	(DECK B)...MOTOR ASSY
PM901	1-454-355-00	(DECK A)...SOLENOID, PLUNGER
Q1	8-729-883-91	TRANSISTOR 2SC2839D
Q2	8-729-883-91	TRANSISTOR 2SC2839D
Q3	8-729-883-92	TRANSISTOR 2SC2839
Q101	8-729-245-83	TRANSISTOR 2SC2458
Q102	8-729-245-83	TRANSISTOR 2SC2458
Q103	8-729-245-83	TRANSISTOR 2SC2458

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q105	8-729-245-83	TRANSISTOR 2SC2458
Q106	8-729-245-83	TRANSISTOR 2SC2458
Q201	8-729-245-83	TRANSISTOR 2SC2458
Q202	8-729-245-83	TRANSISTOR 2SC2458
Q203	8-729-245-83	TRANSISTOR 2SC2458
Q205	8-729-245-83	TRANSISTOR 2SC2458
Q206	8-729-245-83	TRANSISTOR 2SC2458
Q301	8-729-245-83	TRANSISTOR 2SC2458
Q302	8-729-245-83	TRANSISTOR 2SC2458
Q304	8-729-100-13	TRANSISTOR 2SC2001
Q308	8-729-117-54	TRANSISTOR 2SA1175
Q309	8-729-245-83	TRANSISTOR 2SC2458
Q351	8-729-245-83	TRANSISTOR 2SC2458
Q501	8-729-245-83	TRANSISTOR 2SC2458
Q502	8-729-245-83	TRANSISTOR 2SC2458
Q503	8-729-245-83	TRANSISTOR 2SC2458
Q601	8-729-245-83	TRANSISTOR 2SC2458
Q602	8-729-245-83	TRANSISTOR 2SC2458
Q603	8-729-245-83	TRANSISTOR 2SC2458
Q701	8-729-117-54	TRANSISTOR 2SA1175
Q702	8-729-245-83	TRANSISTOR 2SC2458
Q703	8-729-245-83	TRANSISTOR 2SC2458
Q704	8-729-245-83	TRANSISTOR 2SC2458
Q731	8-729-117-54	TRANSISTOR 2SA1175
Q751	8-729-117-54	TRANSISTOR 2SA1175
Q752	8-729-245-83	TRANSISTOR 2SC2458
Q753	8-729-245-83	TRANSISTOR 2SC2458
Q754	8-729-245-83	TRANSISTOR 2SC2458
Q781	8-729-127-54	TRANSISTOR 2SA1175

R2	1-247-783-00	CARBON	10	5%	1/6W
R3	1-247-889-00	CARBON	270K	5%	1/6W
R4	1-247-831-00	CARBON	1K	5%	1/6W
R5	1-247-843-00	CARBON	3.3K	5%	1/6W
R6	1-247-831-00	CARBON	1K	5%	1/6W
R7	1-247-889-00	CARBON	270K	5%	1/6W
R8	1-247-787-00	CARBON	15	5%	1/6W
R9	1-247-819-00	CARBON	330	5%	1/6W
R10	1-247-843-00	CARBON	3.3K	5%	1/6W
R11	1-247-889-00	CARBON	270K	5%	1/6W
R12	1-247-805-00	CARBON	82	5%	1/6W
R16	1-247-852-00	CARBON	7.5K	5%	1/6W
R18	1-247-879-00	CARBON	100K	5%	1/6W
R19	1-247-831-00	CARBON	1K	5%	1/6W
R20	1-247-831-00	CARBON	1K	5%	1/6W
R21	1-249-433-11	CARBON	22K	5%	1/6W
R22	1-249-421-11	CARBON	2.2K	5%	1/6W
R23	1-247-881-00	CARBON	120K	5%	1/6W
R24	1-247-881-00	CARBON	120K	5%	1/6W
R25	1-247-831-00	CARBON	1K	5%	1/6W
R51	1-247-831-00	CARBON	1K	5%	1/6W
R52	1-249-429-11	CARBON	10K	5%	1/6W
R53	1-247-887-00	CARBON	220K	5%	1/6W
R54	1-247-829-00	CARBON	820	5%	1/6W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R55	1-247-843-00	CARBON	3.3K	5%	1/6W	
R56	1-247-843-00	CARBON	3.3K	5%	1/6W	
R57	1-249-437-11	CARBON	47K	5%	1/6W	
R58	1-249-437-11	CARBON	47K	5%	1/6W	
R59	1-247-867-00	CARBON	33K	5%	1/6W	
R60	1-247-867-00	CARBON	33K	5%	1/6W	
R101	1-247-879-00	CARBON	100K	5%	1/6W	
R102	1-247-807-00	CARBON	100	5%	1/6W	
R103	1-247-829-00	CARBON	820	5%	1/6W	
R104	1-249-425-11	CARBON	4.7K	5%	1/6W	
R105	1-247-795-00	CARBON	33	5%	1/6W	
R106	1-247-873-00	CARBON	56K	5%	1/6W	
R107	1-249-425-11	CARBON	4.7K	5%	1/6W	
R108	1-247-891-00	CARBON	330K	5%	1/6W	
R109	1-247-811-00	CARBON	150	5%	1/6W	
R110	1-249-421-11	CARBON	2.2K	5%	1/6W	
R111	1-247-879-00	CARBON	100K	5%	1/6W	
R112	1-247-849-00	CARBON	5.6K	5%	1/6W	
R113	1-247-879-00	CARBON	100K	5%	1/6W	
R114	1-247-819-00	CARBON	330	5%	1/6W	
R115	1-247-872-00	CARBON	51K	5%	1/6W	
R116	1-249-432-11	CARBON	18K	5%	1/6W	
R117	1-247-831-00	CARBON	1K	5%	1/6W	
R118	1-247-812-00	CARBON	160	5%	1/6W	
R119	1-249-440-11	CARBON	82K	5%	1/6W	
R120	1-249-432-11	CARBON	18K	5%	1/6W	
R121	1-247-853-00	CARBON	8.2K	5%	1/6W	
R122	1-247-843-00	CARBON	3.3K	5%	1/6W	
R123	1-247-811-00	CARBON	150	5%	1/6W	
R124	1-247-811-00	CARBON	150	5%	1/6W	
R126	1-247-767-00	CARBON	2.2	5%	1/6W	
R127	1-247-767-00	CARBON	2.2	5%	1/6W	
R128	1-247-804-00	CARBON	75	5%	1/6W	
R129	1-247-897-00	CARBON	560K	5%	1/6W	
R130	1-247-811-00	CARBON	150	5%	1/6W	
R131	1-247-843-00	CARBON	3.3K	5%	1/6W	
R132	1-247-831-00	CARBON	1K	5%	1/6W	
R136	1-247-867-00	CARBON	33K	5%	1/6W	
R301	1-247-815-00	CARBON	220	5%	1/6W	
R302	1-247-815-00	CARBON	220	5%	1/6W	
R303	1-249-429-11	CARBON	10K	5%	1/6W	
R304	1-247-815-00	CARBON	220	5%	1/6W	
R305	1-247-801-00	CARBON	56	5%	1/6W	
R307	1-247-818-00	CARBON	300	5%	1/6W	
R308	1-249-429-11	CARBON	10K	5%	1/6W	
R309	1-249-429-11	CARBON	10K	5%	1/6W	
R310	1-249-419-11	CARBON	1.5K	5%	1/6W	
R311 ⚠	1-217-383-00	FUSIBLE	4.7	5%	1/4W	
R312	1-247-807-00	CARBON	100	5%	1/6W	
R313	1-247-849-00	CARBON	5.6K	5%	1/6W	
R314	1-249-429-11	CARBON	10K	5%	1/6W	
R315	1-247-867-00	CARBON	33K	5%	1/6W	
R317	1-249-437-11	CARBON	47K	5%	1/6W	
R319	1-249-421-11	CARBON	2.2K	5%	1/6W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R323 ⚠	1-217-388-00	FUSIBLE	12	5%	1/4W	F
R324	1-247-783-00	CARBON	10	5%	1/6W	
R325	1-247-831-00	CARBON	1K	5%	1/6W	
R326	1-247-828-00	CARBON	750	5%	1/6W	
R327	1-249-429-11	CARBON	10K	5%	1/6W	
R328	1-249-429-11	CARBON	10K	5%	1/6W	
R330	1-247-831-00	CARBON	1K	5%	1/6W	
R331	1-247-831-00	CARBON	1K	5%	1/6W	
R351	1-249-429-11	CARBON	10K	5%	1/6W	
R352	1-247-859-00	CARBON	15K	5%	1/6W	
R353	1-247-849-00	CARBON	5.6K	5%	1/6W	
R401	1-247-849-00	CARBON	5.6K	5%	1/6W	
R402	1-247-851-00	CARBON	6.8K	5%	1/6W	
R403	1-247-813-00	CARBON	180	5%	1/6W	
R404	1-247-826-00	CARBON	620	5%	1/6W	
R405	1-247-815-00	CARBON	220	5%	1/6W	
R501	1-247-833-00	CARBON	1.2K	5%	1/6W	
R502	1-249-437-11	CARBON	47K	5%	1/6W	
R503	1-247-851-00	CARBON	6.8K	5%	1/6W	
R504	1-247-833-00	CARBON	1.2K	5%	1/6W	
R505	1-249-437-11	CARBON	47K	5%	1/6W	
R506	1-247-851-00	CARBON	6.8K	5%	1/6W	
R507	1-247-833-00	CARBON	1.2K	5%	1/6W	
R508	1-249-437-11	CARBON	47K	5%	1/6W	
R509	1-247-851-00	CARBON	6.8K	5%	1/6W	
R510	1-249-437-11	CARBON	47K	5%	1/6W	
R511	1-249-425-11	CARBON	4.7K	5%	1/6W	
R512	1-249-429-11	CARBON	10K	5%	1/6W	
R701	1-249-437-11	CARBON	47K	5%	1/6W	
R702	1-247-859-00	CARBON	15K	5%	1/6W	
R703	1-249-425-11	CARBON	4.7K	5%	1/6W	
R705	1-247-897-00	CARBON	560K	5%	1/6W	
R706	1-249-425-11	CARBON	4.7K	5%	1/6W	
R707	1-249-437-11	CARBON	47K	5%	1/6W	
R708	1-247-879-00	CARBON	100K	5%	1/6W	
R709	1-249-414-11	CARBON	560	5%	1/6W	
R710	1-249-429-11	CARBON	10K	5%	1/6W	
R711	1-247-889-00	CARBON	270K	5%	1/6W	
R712	1-247-879-00	CARBON	100K	5%	1/6W	
R713	1-247-745-11	CARBON	330	5%	1/2W	
R714	1-247-831-00	CARBON	1K	5%	1/6W	
R715 ⚠	1-217-422-00	FUSIBLE	1	5%	1/2W	F
R716 ⚠	1-217-422-00	FUSIBLE	1	5%	1/2W	F
R731	1-247-859-00	CARBON	15K	5%	1/6W	
R732	1-247-831-00	CARBON	1K	5%	1/6W	
R733	1-249-437-11	CARBON	47K	5%	1/6W	
R751	1-249-437-11	CARBON	47K	5%	1/6W	
R752	1-247-859-00	CARBON	15K	5%	1/6W	
R753	1-249-425-11	CARBON	4.7K	5%	1/6W	
R755	1-247-897-00	CARBON	560K	5%	1/6W	
R756	1-249-425-11	CARBON	4.7K	5%	1/6W	
R757	1-249-437-11	CARBON	47K	5%	1/6W	
R758	1-247-879-00	CARBON	100K	5%	1/6W	
R759	1-249-414-11	CARBON	560	5%	1/6W	

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R761	⚠1-217-422-00	FUSIBLE	1	5%	1/2W F
R781	1-247-859-00	CARBON	15K	5%	1/6W
R782	1-247-831-00	CARBON	1K	5%	1/6W
R783	1-249-437-11	CARBON	47K	5%	1/6W
RM701	8-749-016-01	DM-106A			
RM751	8-749-016-01	DM-106A			
RV1	1-230-477-11	RES, VAR, CARBON 100K			
RV2	1-228-723-00	RES, ADJ, CARBON 5K			
RV401	1-230-908-11	RES, VAR, SLIDE 100K/100K			
RV402	1-230-908-11	RES, VAR, SLIDE 100K/100K			
RV403	1-230-908-11	RES, VAR, SLIDE 100K/100K			
RV404	*1-230-910-11	RES, VAR, SLIDE 20K/20K (VOLUME)			
RV405	1-230-909-11	RES, VAR, SLIDE 50K (BALANCE)			
RV701	1-228-723-00	RES, ADJ, CARBON 5K			
RV703	1-228-724-00	RES, ADJ, CARBON 10K			
RV751	1-228-723-00	RES, ADJ, CARBON 5K			
RV753	1-228-724-00	RES, ADJ, CARBON 10K			
S1	1-554-885-11	SWITCH, LEVER SLIDE (BAND)			
S301	1-570-346-11	SWITCH, SLIDE (REC/PB)			
S302	1-570-348-11	SWITCH, LEVER SLIDE (FUNCTION)			
S303	1-570-345-11	SWITCH, SLIDE (PB)			
S304	1-554-491-00	SWITCH, PUSH (1 KEY)(REC MUTE)			
S305	1-554-061-00	SWITCH, SLIDE (ISS)			
S701	1-554-495-00	SWITCH, LEAF (DECK A POWER)			
S702	1-570-012-11	SWITCH, LEAF			
S752	1-570-012-11	SWITCH, LEAF			
S751	1-554-495-00	SWITCH, LEAF (DECK B POWER)			
S801	1-552-844-11	SWITCH, SLIDE (AC/BATT SELECT)			
SP901	1-503-527-11	SPEAKER			
SP902	1-503-527-11	SPEAKER			
SP903	1-529-030-21	BUZZER			
SP904	1-529-030-21	BUZZER			
T1	1-403-872-00	I.F.T CONVERTER FM(SMALL TYPE)			
T2	1-404-249-00	COIL, FM DETECTOR			
T3	1-404-552-11	TRANSFORMER, IF			
T301	1-433-222-00	TRANSFORMER, BIAS OSCILLATOR			
T801	⚠1-448-252-11	TRANSFORMER, POWER			

ACCESSORY & PACKING MATERIAL

Part No.	Description
3-324-066-01	SHEET, PROTECTION
3-327-954-01	CUSHION (UPPER)
3-327-955-01	CUSHION (INNER)
3-327-956-01	CUSHION (LOWER)
3-330-714-01	(UK)....LABEL, MODEL NUMBER
3-330-724-01	INDIVIDUAL CARTON
3-701-632-00	BAG, POLYETHYLENE
3-703-539-01	(AEP)....INSTRUCTION, FTZ
3-703-895-01	LABEL, COLOR
3-703-906-01	LABEL, COLOR
3-765-046-11	MANUAL, INSTRUCTION
3-881-644-00	PEOTECTION BAG

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